



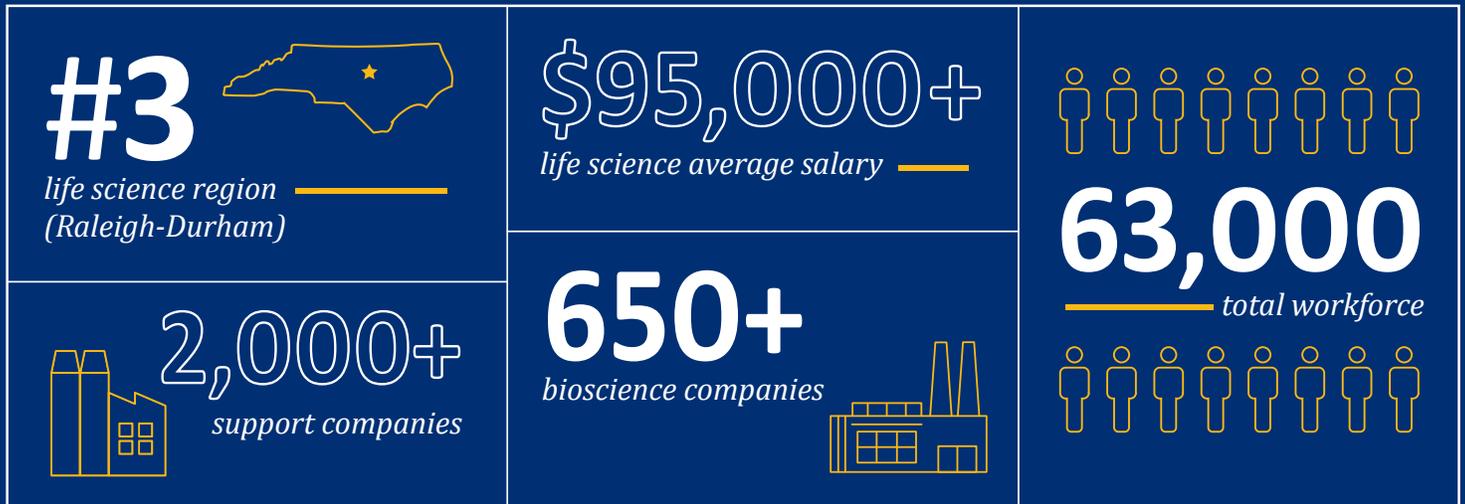
# 2017-18

## NCBIOTECH Company Directory

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# North Carolina: *A global life science leader*



Sources: TEconomy Partners, 2016; JLL Life Sciences Outlook, 2016

**T**he North Carolina Biotechnology Center is a private, non-profit corporation supported by the N.C. General Assembly. Its mission is to transform North Carolina's life science opportunities into economic prosperity through innovation, commercialization, education, and business growth.

The Center, established in 1984, continues to help redefine the concept of "biotech." A vital economic engine for North Carolina, it adapts to scientific changes constantly spinning from the state's many academic research labs and entrepreneurial companies.

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*This listing of Bioscience companies is current as of June 2017*

### Cover Photos

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**108Labs LLC (Research Triangle Park)**

is developing mammary cell culture technologies to produce human and bovine milk in a cell-based manufacturing system, with potential applications in food, nutrition and cosmetic markets.

[108labs.net](http://108labs.net)

**13C Molecular Inc. (Fayetteville)**

provides stable-isotope labeled and native compounds to the pharmaceutical and biomedical industries via custom organic synthesis and sourcing through a consortium of manufacturers.

[13cmolecular.com](http://13cmolecular.com)

**1st Order Pharmaceuticals**

(Research Triangle Park) is a development-stage pharmaceutical company focused on advancing its drug, 1OP-2198, a clinical stage Kv7.2/Kv7.3 opener in epilepsy and pain. It also has a discovery program for parenteral administration.

[1storderpharma.com](http://1storderpharma.com)

**410 Medical Innovation LLC (Durham)**

is developing technology for rapid infusion of blood and blood products for hospital, transport and military healthcare providers, enabling clinicians to quickly and effectively resuscitate critically ill patients.

[410medical.com](http://410medical.com)

**908 Devices Inc. (Carrboro)**

develops and makes chemical analysis products such as handheld chemical detection tools, compact analyzers and separation devices.

[908devices.com](http://908devices.com)

**A&C American Chemicals Ltd. (Raleigh)**

manufactures GMP excipients, APIs and process solutions for pharmaceutical and biotechnology companies. The Raleigh location is a business development office.

[acggp.com](http://acggp.com)

**A1 BioChem Labs LLC (Wilmington)**

offers chemistry services to universities, pharma, agrochemical and biotech industries. Services include custom synthesis of APIs and novel compounds, catalog compound services, route screening, lead optimization and chemical sourcing.

[a1biochemlabs.com](http://a1biochemlabs.com)

# 11,000 EYES A MONTH

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[ncbiotech.org/directory](http://ncbiotech.org/directory)

**Accord Healthcare Inc. (Durham)** develops and manufactures generic pharmaceuticals. Their portfolio includes therapeutics in oncology, cardiology, neurology, nephrology, urology, psychiatry, diabetes and pain management. The North Carolina location is a sales office.

[accord-healthcare.com](http://accord-healthcare.com)

**AccuGenomics Inc. (Wilmington)** develops gene expression tests to diagnose and monitor cancer treatment and manufactures internal standards kits for various multi-gene expression tests used in liquid biopsies and FFPE samples to diagnose and monitor various diseases.

[accugenomics.com](http://accugenomics.com)

**Achelios Therapeutics Inc. (Chapel Hill)**

develops topical therapeutics for the treatment of migraine and peripheral pain.

[achelios.com](http://achelios.com)

**ACRIS Pharmaceuticals LLC (Chapel Hill)**

develops and commercializes unique early stage compounds.

[acrispharma.com](http://acrispharma.com)

**Adámas Nanotechnologies Inc. (Raleigh)**

develops and produces fluorescent nanodiamond particles for life science, medical and industrial applications, including life science research, drug delivery, bioimaging, anti-counterfeiting, oil additives and cosmetics.

[adamasnano.com](http://adamasnano.com)

**Adhezion Biomedical LLC (Hudson)**

develops and produces cyanoacrylate-based medical adhesive, wound care and microbial barrier products for connective tissue (human skin). The company's manufacturing and research facility is located in Hudson, N.C.

[adhezion.com](http://adhezion.com)

**Adroit Pharmaceutical Development**

**LLC (Durham)** identifies new and improved formulations and process technologies. Its primary focus is on inhalation and dermatological product development.

[adroitpharmdev.com](http://adroitpharmdev.com)

**Advanced Animal Diagnostics Inc.**

(Morrisville) develops and commercializes diagnostics to detect and manage disease states, reproductive, nutritional and overall health status of production animals. 💰

[qscoutlab.com](http://qscoutlab.com)

**Advanced Laboratories Inc. (Clayton)**

provides chemical and microbiological analysis of dietary supplements and food products.

[advancedlabsinc.com](http://advancedlabsinc.com)

**Advanced Tear Diagnostics LLC (Raleigh)**

develops and markets a point-of-care lab testing system designed to assist eye care physicians in detecting and quantifying biomarkers associated with external ocular disorders.

[teardiagnosics.com](http://teardiagnosics.com)

**Aegis Surgical Ltd. (Durham)**

is developing a less invasive access system that facilitates percutaneous transaortic transcatheter aortic valve replacement (pTAO-TAVR).

[synecor.com/portfolio](http://synecor.com/portfolio)

# Is your life science company looking for short-term office space?

Let us help you find your first square foot in North Carolina, a global life science leader.

The North Carolina Biotechnology Center's Landing Pad is a unique program that offers both prime physical office space and a full array of professional services to cushion your landing as you establish your company in North Carolina's renowned life science hub, the Research Triangle Park.

Learn more [ncbiotech.org/landingpad](https://ncbiotech.org/landingpad)



**AegisCN LLC** (*Durham*) develops technologies and treatments targeting neurological diseases and inflammation.

**Aerie Pharmaceuticals Inc.**

(*Research Triangle Park*) discovers, develops and commercializes first-in-class therapies for the treatment of patients with glaucoma.

[aeriepharma.com](https://aeriepharma.com)

**Affinergy LLC** (*Morrisville*) develops peptide-based technologies, including diagnostic products, research tools and therapeutic drug monitoring products for use by clinicians and researchers.

[affinergy.com](https://affinergy.com)

**AgBiome Inc.** (*Research Triangle Park*) uses its proprietary Genesis platform to collect, isolate and analyze microbes for use in the discovery and development of biologicals and traits for protecting crops.

[agbiome.com](https://agbiome.com)

**Agile Sciences Inc.** (*Raleigh*) is developing a therapeutic strategy for treating multidrug resistant and chronic bacterial infections using a class of small molecules that is able to disrupt bacterial biofilms.

[agilesci.com](https://agilesci.com)

**Aidia Investment Group Inc.**

(*Research Triangle Park*) detects microparticles (MP) in biologic fluids for the development of novel diagnostics and personalized drug monitoring by providing laboratory services to pharma, CRO and academic clients.

**Ajinomoto North America** (*Raleigh*)

manufactures pharmaceutical-grade amino acids and custom-blended amino acid mixtures.

[ajiaminoscience.com](https://ajiaminoscience.com)

**Akros Medical Inc.** (*Durham*) develops orthopedic medical devices.

[akrosmedical.com](https://akrosmedical.com)

**Alcami Corporation** (*Wilmington and Durham*) provides contract drug development and manufacturing services, including formulation development, analytical chemistry and solid dose and parenteral drug manufacturing for both clinical and commercial markets.

[alcaminow.com](https://alcaminow.com)

**Alderon BioSciences Inc.** (*Beaufort*) develops point-of-care diagnostics.

**Alera Labs LLC** (*Durham*) provides contract research analytical chemistry, in vitro toxicology, GLP analysis and preformulation services to pharmaceutical, biotech and medical device companies.

[aleralabs.com](https://aleralabs.com)

**ALG Therapeutics LLC** (*Chapel Hill*)

develops pharmaceutical products for pain disorders.

**Algaen Corp.** (*Winston-Salem*)

is exploring microalgae to develop, produce and market products and technologies for the nutraceutical, pharmaceutical and bio-energy industries.

[algaen.com](https://algaen.com)

**Alganomics LLC** (*Southport*) is researching and developing algae-culturing systems to create bioproducts, including biofuels.

**Alion Science and Technology Inc.**

(Research Triangle Park) provides toxicology research, animal husbandry, inhalation engineering and biochemistry services. Alion operates four bioscience research laboratories in the Triangle.

[alionscience.com](http://alionscience.com)

**Allergy Partners Extract Laboratory**

(Asheville) produces extracts that are used to treat allergic disease, asthma and immunology.

[allergypartners.com](http://allergypartners.com)

**Almac Clinical Services LLC (Durham)**

provides clinical trial material manufacturing, packaging and distribution services.

[almacgroup.com/development-manufacturing/clinical-services/](http://almacgroup.com/development-manufacturing/clinical-services/)

**Almac Diagnostics LLC (Durham)**

offers services for biomarker discovery, assay development/validation/testing and companion diagnostic co-development. Testing platforms include NGS, Microarray, qPCR and IHC. Regulatory and bioinformatics consulting services are also available.

[almacgroup.com/diagnostics](http://almacgroup.com/diagnostics)

**ALP Life Sciences LLC (Black Mountain)**

develops diagnostics and therapeutics for liver diseases and related inflammatory diseases.

[alplifesciences.com](http://alplifesciences.com)

**Alpha Nano Tech LLC (Research Triangle Park)**

provides nanoparticle and exosome characterization services.

[alphanano.tech](http://alphanano.tech)

**AlphaSyx Therapeutics Inc.**

(Winston-Salem) is developing novel medicines that target cholinergic receptors to prevent and treat diseases of inflammation, initially neuroinflammation resulting in Postoperative Cognitive Decline (POCD).

[alphasyx.com](http://alphasyx.com)

**Alrgn Bio Inc. (Greensboro)**

provides reduced allergen peanuts to food producers via post-harvest bio-processing. Alrgn's patented, food-grade enzymatic process inactivates major allergens found in peanuts and peanut products.

[alrgnbio.com](http://alrgnbio.com)

**Alterna Therapeutics Inc. (Durham)**

develops therapeutics to treat diabetes and obesity.

**American Distillation Inc. (Leland)**

manufactures industrial-grade ethyl alcohol and offers contract manufacturing services such as distillation, dehydration, reaction, carbon treating and blending.

[americandistillation.net](http://americandistillation.net)

**Andersen Products Inc. (Haw River)**

sells and services the Anprolene and EOGas lines of 100% ethylene oxide gas sterilizers. They also provide contract packaging and sterilization services for device manufacturers.

[anpro.com](http://anpro.com)

**Andersen Scientific Inc. (Morrisville)**

provides contract ethylene oxide sterilization and validation services for packaging and devices. Andersen's sterilization cycles include microbiological and other testing.

[ansci.us](http://ansci.us)

**Annias Immunotherapeutics Inc.**

(Chapel Hill) is developing a therapeutic vaccine for the treatment of malignant brain tumors.

[anniasimmuno.com](http://anniasimmuno.com)

**Antech Diagnostics Inc. (Morrisville)**

provides clinical and veterinary hematology analysis, clinical chemistry, urinalysis and coagulation testing.

[antechglp.com](http://antechglp.com)

**Anuva Manufacturing Services Inc.**

(Morrisville) offers medical device manufacturing support; electrical, mechanical and programming engineering services; and logistics, repair and testing services. Anuva has expertise in drug delivery and monitoring devices and is ISO 13485-certified.

[anuva.com](http://anuva.com)

**Appealing Products Inc. (Raleigh)**

develops products for forensics and personal protection from toxic materials such as inorganics, gases and poisons in foods, animal feeds and liquids.

[appealingproducts.com](http://appealingproducts.com)

**Apple Pharms Ingredients Inc. (Asheville)**

discovers natural bioactive ingredients and functional foods for nutritional and medicinal purposes. Apple Pharms also provides contract development and drug discovery services.

[applepharms.com](http://applepharms.com)

**Applied Catheter Technologies Inc.**

(Winston-Salem) develops drug-coated medical devices that inhibit scar formation. The company's first products under development are catheters for male urethral stricture and devices which inhibit abdominal adhesions. 

[appliedcatheter.com](http://appliedcatheter.com)

**Applied LifeSciences & Systems LLC**

(Raleigh) develops automated bio-system solutions for detecting, targeting and delivering vaccines to poultry. ALS-S technology aims to reduce the need for antibiotics by improving vaccination delivery.

[als-s.com](http://als-s.com)

**Arbiom Inc. (Durham)** develops technologies that convert residues from agriculture and forestry into the intermediates required for the production of biofuels, biomaterials and green chemicals. The Raleigh office is Arbiom's application center.

[arbiom.com](http://arbiom.com)

**Arcato Laboratories Inc. (Durham)**

develops specialty oral healthcare products. Its first product is a sustained-release medicated wax that treats oral discomfort caused by orthodontic appliances.

[arcatolabs.com](http://arcatolabs.com)



Students at North Carolina Central University's Biomanufacturing Research Institute and Technology Enterprise (BRITE) get experience at NCBiotech in poster presentation as part of their transformation into trained scientists.

**Archer Daniels Midland Co. (Southport)** makes citric acid and salts of citric acid used in soft drinks, food products and detergents. They also make yeast mannan as an animal feed ingredient.

[adm.com](http://adm.com)

**Ardeal Pharma Inc. (Brevard)** is a virtual pharma company developing patented stabilized sulforaphane for the dermal pharmaceutical and cosmetic markets. 💰

**Ardeal Research Institute (Brevard)** is a non-profit organization that develops drug discovery capabilities of the natural resources in Western North Carolina. The Institute has collaboration agreements in place with Brevard College and the N.C. Arboretum.

**Argos Therapeutics Inc. (Durham)** develops and commercializes individualized immunotherapies for the treatment of cancer and infectious diseases using its Arcelis technology platform. 💰

[argostherapeutics.com](http://argostherapeutics.com)

**ArrayXpress Inc. (Raleigh)** applies bioinformatics to optimize bioprocesses, increase diagnostic efficiency and provide contract research services, focusing on next generation genomics. 💰

[arrayxpress.com](http://arrayxpress.com)

**Arrivo BioVentures LLC (Morrisville)** accelerates biologics and small molecules from IND/Phase 1 through proof of concept.

[arrivobio.com](http://arrivobio.com)

**Arspichem LLC (Durham)** offers chemical product services to pharma, biotech industries, universities and research organizations to support drug discovery. Products and services include organic molecules, custom synthesis and pharmaceutical screening libraries.

[arspichem.com](http://arspichem.com)

**Arysta LifeScience North America LLC (Cary)** develops and manufactures crop protection products.

[arysta-na.com](http://arysta-na.com)

**Asklepios Biopharmaceutical Inc. (Chapel Hill)** develops protein- and cell-based therapies using a proprietary technology platform called Biological Nano Particles (BNP). 💰

[askbio.com](http://askbio.com)

**Aspir-Tek Inc. (Rocky Mount)** makes Aquaprin, an FDA-approved water-soluble aspirin.

[aspir-tek.com](http://aspir-tek.com)

**Asymchem Laboratories (Morrisville)** provides contract chemical- and drug-manufacturing services. Asymchem's administrative headquarters is in North Carolina, and its manufacturing plants are in China.

[asymchem.com](http://asymchem.com)

**AsystBio Laboratories LLC (Durham)** uses next generation DNA sequencing and proprietary algorithms to count mutations in leukemic cells.

**ATEX Technologies Inc. (Pinebluff)** designs and manufactures custom implantable textile components and bio-resorbable structures for medical devices, as well as medical yarn and fabric.

[atextechnologies.com](http://atextechnologies.com)

**Atlantic Medical Inc. (Wrightsville Beach)** develops nutraceutical products and devices to address ocular diseases.

**Atlantic Pharmaceuticals Ltd. (Research Triangle Park)** develops and commercializes products that address niche unmet needs with a focus on gastrointestinal diseases. Atlantic Pharmaceuticals is the U.S. business development operation of Atlantic Healthcare, an international specialty pharma company.

[atlantichc.com](http://atlantichc.com)

**Atlas Regeneration Inc. (Winston-Salem)** develops bioinformatics platforms for drug discovery related to regenerative medicine and stem cell research. Atlas Regeneration also screens drugs in silico for drug repositioning.

[atlasregeneration.com](http://atlasregeneration.com)

**Atox Bio Inc. (Chapel Hill)** develops novel immunomodulators to treat critically ill patients. Initial focus is on patients with Necrotizing Soft Tissue Infections.

[atoxbio.com](http://atoxbio.com)



**ARK Research LLC (Mebane)** provides contract research services supporting crop protection products. Services include GLP-compliant regulated biotechnology trials, efficacy testing and residues testing.

[arkresearch.com](http://arkresearch.com)

**Array BioPharma Inc. (Morrisville)** develops and commercializes targeted, small-molecule drugs to treat cancer.

[arraybiopharma.com](http://arraybiopharma.com)

**Ascent Bio-Nano Technologies Inc. (Research Triangle Park)** develops cell and particle separation research tools and medical devices.

[ascentbionano.com](http://ascentbionano.com)

**Asinex (Winston-Salem)** designs small-molecule libraries and provides lead optimization, custom synthesis and other chemistry services. The Winston-Salem location is the company's U.S. headquarters.

[asinex.com](http://asinex.com)

**AtriCure Inc. (Morrisville)** develops atrial fibrillation medical devices. Atricare's Morrisville location is developing a cardiac coagulation device for the endoscopic treatment of cardiovascular arrhythmias.  
[atricure.com](http://atricure.com)

**Attagene Inc. (Morrisville)** has developed a pathway profiling technology to evaluate the impact of pharmaceuticals and environmental chemicals on over 100 transcription factors and 48 nuclear receptors.  
[attagene.com](http://attagene.com)

**Atticus LLC, a CSE Life Science Company, (Morrisville)** develops, manufactures and markets post-patent fungicides, herbicides and insecticides.  
[atticusllc.com](http://atticusllc.com)

**Aurobindo Pharma USA Inc. (Raleigh)** is a generic drug manufacturer. Aurobindo develops inhalation and dermatological products from the company's U.S. research and development headquarters in North Carolina.  
[aurobindousa.com](http://aurobindousa.com)

**Avazyme Inc. (Research Triangle Park)** provides field and GLP laboratory testing for sectors including agchem, agbiotech, food and beverage producers and retailers, brewers and distillers. Capabilities include analytical and immunochemistry, microbiology and molecular biology.  
[avazyme.com](http://avazyme.com)

**Avertica Inc. (Research Triangle Park)** develops compounds and polymers for electronic device applications, including the development of biomimetic and bio-based electronic materials.  
[averticainc.com](http://averticainc.com)

**Avila Inc. (Durham)** is developing rapid hair removal pad technology for use prior to the placement of defibrillator pads on victims of sudden cardiac arrest. 💰  
[fullpoweraed.com](http://fullpoweraed.com)

**Avioq Inc. (Research Triangle Park)** develops and manufactures FDA-approved and CE-marked immunodiagnostic assays. Products include HIV and HTLV assays, recombinant proteins and synthetic peptides and labware supplies. Avioq also offers contract assay development and manufacturing.  
[avioq.com](http://avioq.com)



Research programs at the NC State University College of Veterinary Medicine comprise over 140 faculty representing more than 20 species in nine research areas of emphasis.

photo: NCSU/Roger Winstead

**Avista Pharma Solutions (Durham)** provides pharmaceutical, animal health and medical device clients with services including API and drug product discovery, development and cGMP manufacturing and stand-alone analytical and microbiology testing support.  
[avistapharma.com](http://avistapharma.com)

**Avoca Inc. (Merry Hill)** develops and manufactures botanical extraction products and provides extraction services. Avoca contracts with farmers to grow clary sage and also processes krill oil for omega-3 fatty acids.  
[pharmachemlabs.com/divisions/avoca](http://pharmachemlabs.com/divisions/avoca)

**Avolynt Inc. (Research Triangle Park)** is developing a novel SGLT2 inhibitor for the treatment of nonalcoholic steatohepatitis (NASH) and type 2 diabetes.  
[avolynt.com](http://avolynt.com)

**Azzur Labs LLC (Cary)** provides analytical GXP compliant testing services for the pharmaceutical, medical device, food and cosmetic industries. Programs include environmental monitoring, cleaning validations, biological indicator analysis and microbial identification.  
[azzur.com/labs](http://azzur.com/labs)

**Baebies Inc. (Durham)** develops and provides newborn screening, pediatric testing and health management products based on digital microfluidics and other technology. 💰  
[baebies.com](http://baebies.com)

**Bamboo Therapeutics, A Wholly Owned Subsidiary of Pfizer, (Chapel Hill)** develops gene therapies to treat rare genetic central nervous system (CNS) and neuromuscular diseases, including Giant Axonal Neuropathy (GAN), Canavan Disease, Friedreich's Ataxia and Duchenne Muscular Dystrophy (DMD).  
[bambootherapeutics.com](http://bambootherapeutics.com)

**Banner Life Sciences** (*High Point*), the products and technologies division of Patheon, researches, develops and produces gelatin-based oral dosage pharmaceutical products.

[bannerls.com](http://bannerls.com)

**Barbaresco Pharma LLC** (*Chapel Hill*) is a target drug discovery company focused on obesity, cardiovascular and metabolic diseases.

**BaseTrace** (*Research Triangle Park*) develops DNA-based industrial fluid tracers for environmental monitoring and process optimization in the energy sector. 💰

[basetrace.com](http://basetrace.com)

**BASF Corp.** (*Research Triangle Park*) develops plant health products and seed treatments and conducts plant biotechnology research with a focus on yield and quality traits in major crops. Business units in RTP include the crop protection and plant science groups.

[basf.com/plantscience](http://basf.com/plantscience)

**Bavarian Nordic Inc.** (*Morrisville*) develops, manufactures and commercializes cancer immunotherapies and vaccines for infectious diseases.

[bavarian-nordic.com](http://bavarian-nordic.com)

**Baxter Healthcare Corp.** (*Marion*) produces intravenous and peritoneal dialysis solutions, as well as empty containers and component parts for other Baxter facilities.

[baxter.com](http://baxter.com)

**Bayer** (*Research Triangle Park, Clayton and Pikeville*) is a global enterprise with core competencies in the life science fields of health care and agriculture. Research Triangle Park serves as the North American Crop Science headquarters. Bayer's site in Clayton performs pesticide and bee health research. The Pikeville site identifies, tests and develops new cotton and soybean varieties.

[bayercropscience.us](http://bayercropscience.us)

**BD Diagnostics** (*Burlington, Durham and Mebane*) develops and commercializes molecular diagnostic products for various cancers, including cervical, breast, ovarian and prostate.

[bd.com/tripath](http://bd.com/tripath)

**BD Technologies** (*Research Triangle Park*) develops technologies for parenteral drug delivery, advanced diagnostics, smart medical devices, cellular and genomics and external innovation programs. The RTP site is BD's corporate technology R&D and innovation center.

[bd.com/technologies](http://bd.com/technologies)

**Beeken BioMedical LLC** (*Raleigh*) develops and commercializes hemostasis wound dressings and polymer-based liquid bandage products.

[beekenbiomedical.com](http://beekenbiomedical.com)

**BENANOVA Inc.** (*Raleigh*) develops antimicrobial nanotechnology products for the disinfectant, cosmetic and agricultural industries.

[benanova.com](http://benanova.com)

**Benson Hill Biosystems Inc.** (*Research Triangle Park*) is an agricultural biotechnology company focused on the development of traits to increase crop yield, principally by improving photosynthesis. 💰

[bensonhillbio.com](http://bensonhillbio.com)

**Bent Creek Institute Inc.** (*Asheville*) conserves and develops plant biodiversity assets and maintains the North Carolina Arboretum's Bent Creek Germplasm Repository. It also administers the U.S. Botanical Safety Laboratory, a consortium of university botanical research sites.

[bentcreekinstitute.org](http://bentcreekinstitute.org)

**BestCo Inc.** (*Mooresville*) manufactures confectionery-based dosage forms for nonprescription drug products and dietary supplements.

[bestco.com](http://bestco.com)

**BindusChem LLC** (*Research Triangle Park*) offers contract drug discovery and process chemistry projects for clients, synthesis of small molecules for SAR study, focused arrays and scaffolds, as well as chemical development, route scouting, process optimization and validation.

[binduschem.com](http://binduschem.com)

**Bio Products Laboratory USA Inc.** (*Durham*) manufactures and distributes plasma-derived products, including intravenous immunoglobulin preparations, coagulation factors and albumin solution. The Durham office is the U.S. distributor for BPL products.

[bpl-us.com](http://bpl-us.com)

**BioAgilytix Labs Inc.** (*Durham*) is a bioanalytical lab specializing in large-molecule bioanalysis, offering PK, immunogenicity, biomarkers and cell-based assays in support of the development and release testing of biologics and small-molecule therapeutics.

[bioagilytix.com](http://bioagilytix.com)



**Seqirus'** \$1 billion campus in Holly Springs is the first and only full-scale cell culture flu vaccine manufacturing facility in the U.S. The 185-acre site encompasses seven buildings. The manufacturing center alone, covering 10 American football fields, employs about 550 people.

photo: Seqirus



For more information  
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# The North Carolina Biosciences Organization

*The Trade Association for North Carolina's Life Science Industry*

- Monitoring key state and federal legislation and other government activities that could affect your business
- Advocating for public policy that promotes the growth of North Carolina's life science industry
- Assisting members through discounted purchasing programs for laboratory equipment, insurance, office supplies and more
- Educating through reports, meetings and events about the life science industry
- Networking opportunities for life science industry executives and public and private leaders across North Carolina
- Working with BIO, AdvaMed, MDMA, PhRMA and other national organizations

Pharmaceuticals | Medical Devices | Medical Diagnostics | Academia  
Research Centers | Agricultural | Contract Research | Service Providers

**BioCI Systems Inc. (Raleigh)** provides sterilization validation services and other contract laboratory testing services.

[bioci.com](http://bioci.com)

**Biocomposites Inc. (Wilmington)** develops, manufactures and distributes synthetic tissue regeneration products. The Wilmington office is a sales office.

[biocomposites.com](http://biocomposites.com)

**BioCryst Pharmaceuticals Inc. (Durham)** designs and develops novel, small-molecule oral drugs that block key enzymes to treat rare diseases. The Durham location houses BioCryst's clinical, regulatory and executive teams.

[biocryst.com](http://biocryst.com)

**BioCytics Inc. (Huntersville)** researches and develops personalized cellular immunotherapy cancer therapies.

[biocytics.com](http://biocytics.com)

**BioDelivery Sciences International Inc. (Raleigh)** is a specialty pharmaceutical company with a focus in the areas of pain management and addiction. The company's lead products utilize a buccal film delivery system.

[bdsi.com](http://bdsi.com)

**BioDepronix LLC (Chapel Hill)** develops instruments to sense and monitor toxic chemicals and gases in outdoor and indoor air, as well as in lab-created air samples, using changes in the metabolism and genome expression of living human cells. 

[quantaire.com](http://quantaire.com)

**BioDyne Water Reclamation Inc. (Raleigh)** engineers and markets water reclamation systems using biotreatment with its patented IBAC single vessel full-treatment systems.

[biodynegroup.com](http://biodynegroup.com)

**Biofluidica Inc. (Chapel Hill)** is developing novel instrumentation for the isolation and analysis of circulating biomarkers, including circulating tumor cells, in cancer patients. 

[biofluidica.com](http://biofluidica.com)

**BioGaia Biologics Inc. (Raleigh)** develops and sells probiotic products.

[biogaia.com](http://biogaia.com)

**Biogen (Research Triangle Park)** discovers, develops and manufactures therapies for neurodegenerative diseases, hemophilia and autoimmune disorders. It operates biologics and oral solid dose manufacturing facilities and a patient services contact center in RTP.

[biogen.com](http://biogen.com)

**BioGenomics LLC (Knightdale)** provides pharmacogenomic testing to inform prevention, diagnosis and treatment of various diseases.

[biogenomicsdx.com](http://biogenomicsdx.com)

**BioGreen Synergy Inc. (Greensboro)** manufactures, grows and provides algae-based products for use in alternative renewable energies, USDA, non-USDA and chemical markets.

[biogreensynergy.com](http://biogreensynergy.com)

**BioKier Inc. (Chapel Hill)** develops proprietary drugs for diabetes and related disorders. BioKier has identified a therapeutic opportunity based on gastric bypass surgery and is developing a novel treatment for diabetes. 💰

[biokier.com](http://biokier.com)

**BioLink Life Sciences Inc. (Cary)** provides contract product development support through custom synthesis and testing.

[biolinkonline.com](http://biolinkonline.com)

**Biological Applied Research Inc. (Raleigh)** provides efficacy testing of agricultural chemicals such as fungicides and nematocides on various crops, including fruit and vegetables.

[biologicalappliedresearch.com](http://biologicalappliedresearch.com)

**BioMarck Pharmaceuticals Ltd. (Durham)** develops drugs to treat pulmonary diseases and disorders, such as chronic obstructive pulmonary disease, ARDS, cystic fibrosis and lung cancer. 💰

[biomarck.com](http://biomarck.com)

**bioMASON (Research Triangle Park)** develops masonry material from a nonpathogenic bacterium which induces cement materials in between aggregates such as sand. 💰

[biomason.com](http://biomason.com)

**BioMedica USA LLC (Durham)** develops rapid and portable diagnostic systems and biosensor systems for point-of-care platforms in blood coagulation, clinical immunology and drug monitoring.

[biomedicausa.com](http://biomedicausa.com)

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[bmuller@casso.com](mailto:bmuller@casso.com)  
[cassoreservations.wixsite.com/biomedicalpartnerctr](http://cassoreservations.wixsite.com/biomedicalpartnerctr)

The Biomedical Partnership Center at North Carolina State University offers customized lab and office space for lease to biomedical companies. Tenant benefits include affiliate privileges from NCSU and collaborative research opportunities with the university's colleges. Leasing and management by Capital Associates.

**BioMedomics Inc. (Durham)**

develops point-of-care (POC) diagnostics, with a focus on immunologically-based disease-specific tests and advanced quantitative POC platforms. 💰

[biomedomics.com](http://biomedomics.com)

**bioMérieux Inc. (Durham)** develops in vitro products to diagnose infectious diseases, cancer and cardiovascular disease and to detect microorganisms in agri-foods, pharmaceuticals and cosmetics.

[biomerieux-usa.com](http://biomerieux-usa.com)

**bioMONTR Labs (Research Triangle Park)** provides a broad range of CLIA-certified high-complexity laboratory testing, including assay/IVD protocol development, validation design, performance evaluation testing, drug trials and collaborative studies and regulatory/quality control.

[biomontr.com](http://biomontr.com)

**Bio-Pro Research LLC (Hickory)**

manufactures and distributes bio-enzymatic products for stain and odor removal.

[urineoff.com](http://urineoff.com)

**Bioptigen Inc., a Leica Microsystems company (Morrisville)**

develops optical coherence tomography imaging systems for surgical ophthalmology, pediatric ophthalmology and preclinical research in ophthalmology and the life sciences. 💰

[leica-microsystems.com/products/optical-coherence-tomography-oct](http://leica-microsystems.com/products/optical-coherence-tomography-oct)

**BioResource International Inc. (Durham)**

designs, develops and manufactures unique enzymes that help poultry and swine producers optimize animal nutrition and gut health. 💰

[briworldwide.com](http://briworldwide.com)

**Biorg Inc. (Winston-Salem)**

is developing and commercializing organoid technology for use in life science applications such as diagnostics, drug screenings and toxicology. 💰

[biorg.com](http://biorg.com)

**BioRxn LLC (Chapel Hill)** develops NMR-based metabolomic technology, including bioreactor and artificial liver systems, for non-invasive monitoring of metabolic biomarkers. BioRxn also provides conventional metabolomic services.

[biorxn.com](http://biorxn.com)

**Biota Diagnostics LLC (Charlotte)** offers pharmaceutical compound testing, dialysis and medical device testing and environmental analytical testing services.

[biotadiag.com](http://biotadiag.com)

**Biotech Restorations LLC (Denver)**

formulates bioremediation products for the cleanup of petroleum and chlorinated hydrocarbons including gasoline and diesel, organochloride pesticides, PCBs and volatile organic chemicals in soil, sediment and groundwater.

[biotechrestorations.com](http://biotechrestorations.com)

Learn more about NCBiotech's

# GRANTS

[ncbiotech.org/grants](http://ncbiotech.org/grants)

**BioTrackers Inc. (Charlotte)** develops bacterial, or microbial, source tracking technology.

**Bio-Val LLC (Cornelius)** provides bioassay development, method validation, reagent production and characterization, feasibility and medical writing services.

[biovalconsulting.com](http://biovalconsulting.com)

**BioVendor LLC (Asheville)** sells biological reagents and research products, including enzyme-linked immunosorbent assay (ELISA) kits, antibodies, proteins and other molecules for life sciences research. The Asheville site is the U.S. headquarters.

[biovendor.com](http://biovendor.com)

**Bioventus LLC (Durham)** researches and develops orthobiologic solutions for bone fusion and healing, osteoarthritis and related pain, and orthopaedic surgery.

[bioventusglobal.com](http://bioventusglobal.com)

**BioZyme Inc. (Apex)** develops and sells substrates for metalloproteinases (MMPs and ADAMs) which can be used in enzyme assays and other diagnostic tests.

[biozyme-inc.com](http://biozyme-inc.com)

**Blue Ridge Institute for Medical Research (Horse Shoe)** researches protein kinase enzymes and targeted cancer therapies.

[brimr.org](http://brimr.org)

**Brighton Development LLC (Cary)** develops sterilizing technologies and antimicrobial medical plastics.

**Brite Bio Inc. (Research Triangle Park)** provides contract research services, including cell culture services, cell-based assays, biomarker assay development, toxicological assays, bio-banking, drug target identification and gene expression profiling and characterization.

[britebio.com](http://britebio.com)

**Burleson Research Technologies Inc. (Morrisville)** provides laboratory services to the biotechnology, pharmaceutical, chemical manufacturing and health care industries with proof-of-concept, preclinical, clinical and toxicology studies.

[brt-labs.com](http://brt-labs.com)

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**C Change Surgical LLC (Winston-Salem)**

researches, patents and commercializes surgical technologies, with a focus on computerized, therapeutic temperature management technologies.

[cchangesurgical.com](http://cchangesurgical.com)

**Calvert Laboratories Inc. (Cary)**

provides preclinical research and contract drug discovery and development services, such as lead identification and lead optimization services.

[calvertlabs.com](http://calvertlabs.com)

**Camargo Pharmaceutical Services LLC**

(Durham) provides contract drug development services, including formulation and testing, regulatory consulting, phase one through four program development and API and clinical trial materials sourcing.

[camargopharma.com](http://camargopharma.com)

**Cambrex High Point (High Point)**

develops and manufactures small molecule APIs and intermediates for clinical phase projects. It offers custom organic synthesis, process development and cGMP manufacturing services.

[cambrex.com](http://cambrex.com)

**Campbell University Pharmaceutical Education and Research Center**

(Buies Creek) offers analytical, formulation, R&D and training services to the pharma and biotech industries, compounding pharmacies, government agencies and other academic institutions.

[campbell.edu/cphs/centers-and-programs/pharmaceutical-education-research-center/](http://campbell.edu/cphs/centers-and-programs/pharmaceutical-education-research-center/)

**Camras Vision Inc. (Research Triangle Park)**

is developing an ocular implant to treat glaucoma. 

[camrasvision.com](http://camrasvision.com)

**Cancer Advances Inc. (Durham),**

a subsidiary of Cato Bioventures, develops immunomodulator therapeutics to treat gastrointestinal cancers.

[canceradvancesinc.com](http://canceradvancesinc.com)

**Cancer Genetics Inc. (Morrisville)**

offers diagnostic products and services that enable precision medicine in the field of oncology. This site performs clinical pharmacogenomic testing and provides biorepository services under federally-designated clinical lab standards.

[cancergenetics.com](http://cancergenetics.com)

**Capture Pharmaceuticals Inc. (Chapel Hill)**

develops oral treatments for removing toxic or radioactive metals in contaminated individuals.

[capturepharm.com](http://capturepharm.com)

**CardioEphEx LLC (Chapel Hill)**

develops therapeutics for cardiovascular disease and heart failure. The company's research focuses on cardioprotection by targeting the Ephrin/Eph receptor signaling pathway in the heart.

[cardioephex.com](http://cardioephex.com)

**CardioPharma Inc. (Wilmington)**

develops combinatorial products to treat cardiovascular disease.

[cardio-pharma.com](http://cardio-pharma.com)

**CardioVascular and ExtraCorporeal Technologies (Winston-Salem)**

provides implantable medical device preclinical and clinical testing services.

[cvect.devhub.com](http://cvect.devhub.com)

**Carolina Immunochemistry LLC**

(Winston-Salem) develops immunological reagents and homogenous assays for vitamin D and drugs of abuse that can be run with equipment already present in most physician laboratories.

**Carolina Liquid Chemistries Corp.** (*Winston-Salem*), an ISO-certified and FDA-registered medical device company, specializes in clinical chemistry analyzers and reagents for clinical and reference labs. CLC also offers instrument training, repair, QA and technical support.  
[carolinachemistries.com](http://carolinachemistries.com)

**Carolinas HealthCare System Division of Therapeutic Research and Development** (*Charlotte*) conducts clinical studies, patient-focused translational research and outcomes research.  
[carolinashhealthcare.org/research-and-clinical-trials](http://carolinashhealthcare.org/research-and-clinical-trials)

**Catalent Pharma Solutions LLC** (*Morrisville*) develops inhalation products and provides analytical testing, formulation and other scientific services.  
[catalent.com](http://catalent.com)

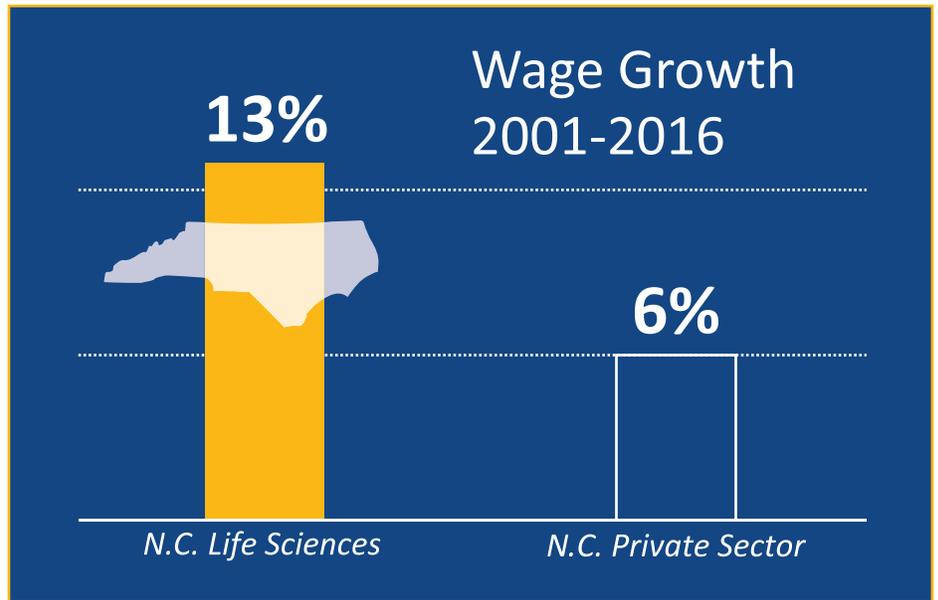
**Cathtek Inc.** (*Winston-Salem*) develops and manufactures catheters and related accessories.  
[cathtek.com](http://cathtek.com)

**Cato Research Ltd.** (*Durham*) provides contract research services, including preclinical and clinical study design and management, regulatory assessments, data management and statistics, CMC program management, medical writing and submission of regulatory documents.  
[cato.com](http://cato.com)

**Cedarlane Laboratories Ltd.** (*Burlington*) manufactures and sells antibodies, proteins, research reagents and cell separation media to the life science community. The Burlington, N.C. site is a distribution office.  
[cedarlanelabs.com](http://cedarlanelabs.com)

**CEI Labs Inc.** (*Cary*) provides industrial hygiene laboratory services such as asbestos testing, microbiology analysis and fungi analysis.  
[ceilabs.com](http://ceilabs.com)

**Cell Microsystems Inc.** (*Research Triangle Park*) develops, manufactures and commercializes products and tools for the isolation, recovery and analysis of single cells. 💰  
[cellmicrosystems.com](http://cellmicrosystems.com)



**Celldom Inc.** (*Durham*) is developing a system for high throughput single cell analysis for screening and credentialing new molecules and therapies during lead optimization.  
[celldom.com](http://celldom.com)

**Collective BioTherapy Inc.** (*Research Triangle Park*) is developing cellular and monoclonal antibody-based platforms for treating cancers, autoimmunity and immunodeficiency.  
[collectivebiotherapy.com](http://collectivebiotherapy.com)

**Cellex Inc.** (*Research Triangle Park*) develops, manufactures and markets diagnostic tests suitable for point-of-care use. These tests use a platform technology called Homogeneous Biochemiluminescence Assay (HBA), which enables assays that are highly sensitive and easy-to-use.  
[cellex.us](http://cellex.us)

**CELLF-Bio LLC** (*Winston-Salem*) is developing a novel regenerative medicine-based therapy for fecal incontinence.

**CellSolutions LLC** (*Greensboro*) develops liquid-based preparation and evaluation systems for cytology applications. The company's primary area of focus is women's health, including cervical cancer screening, precancer detection and evaluation of infectious disease.  
[cellsols.com](http://cellsols.com)

**Celplor LLC** (*Raleigh*) provides molecular biology services, including stable cell line generation, Southern blot analysis, Western blot analysis, cDNA cloning and mouse tail genotyping.  
[celplor.com](http://celplor.com)

**CEM Corp.** (*Matthews*) designs and develops microwave laboratory instrumentation and scientific methods for life sciences, analytical laboratories and processing plants.  
[cem.com](http://cem.com)

**Cempra Pharmaceuticals Inc.** (*Chapel Hill*) develops antibiotics for treating drug-resistant bacterial infections.  
[cempra.com](http://cempra.com)

**Cenduit LLC** (*Durham*) helps pharmaceutical, biotech and medical device companies control the processes of patient enrollment, patient randomization and drug supply through the use of Interactive Response Technology (IRT).  
[cenduit.com](http://cenduit.com)

**Centauri Surgical Systems** (*Durham*) develops MRI-guided robotic surgical platforms for neurologic procedures that allow surgeons to precisely access the brain and spine, providing rapid, automated delivery of diagnostic and therapeutic instruments and drugs.  
[centaurisurgical.com](http://centaurisurgical.com)

**Centre Ingredient Technology Inc.**

(Rockingham) develops natural flavors and fragrance ingredients for the food, beverage and cosmetics industry using fermentation. CIT also provides contract development, toll manufacturing and biotransformation services.

[bioingredients.com](http://bioingredients.com)

**CertiRx Corp. (Research Triangle Park)**

develops products to prevent counterfeiting of pharmaceuticals and other products, including both printed authentication and microparticle taggants. 💰

[certirx.com](http://certirx.com)

**Chaperone Therapeutics Inc.**

(Research Triangle Park) develops disease-modifying therapies for neurodegenerative and rare diseases caused by protein misfolding. 💰

[chaperonetherapeutics.com](http://chaperonetherapeutics.com)

**Charles River Laboratories (Durham, Hillsborough, Morrisville, and Raleigh)**

provides drug discovery and development process services. CRL's Pathology Associates in Durham provides pathology and toxicology contract services. CRL's Hillsborough location provides contract toxicologic pathology and histology services. CRL's Oncology Center of Excellence in Morrisville provides in vivo and in vitro oncology research services.

[criver.com](http://criver.com)

**Charter Medical Ltd. (Winston-Salem)**

designs and supplies single-use solutions for cell growth, frozen storage and biological fluid handling for the bioprocessing, cell therapy and medical device industries. CML is FDA registered and ISO 13485 certified.

[chartermedical.com](http://chartermedical.com)

**Chematron Inc. (Charlotte)**

manufactures textile chemicals and has the capability for contractual custom manufacture of specialty chemicals.

[chematron.com](http://chematron.com)

**Chem-Bac Laboratories Inc. (Charlotte)**

is an FDA-registered analytical testing laboratory specializing in petroleum products, polymers, pharmaceuticals and textiles.

[chembac.com](http://chembac.com)

**ChemoGenics Biopharma LLC**

(Research Triangle Park) provides collaborative drug discovery, bioanalytical, formulation and scale-up services. Capabilities include medicinal chemistry, DMPK, bioinformatics and preclinical models in cancer, inflammation and metabolic diseases. chemogenics

[biopharma.com](http://biopharma.com)

**ChemQ Bioscience LLC**

(Research Triangle Park) develops and markets novel liquid products, such as bio-preservation media, tissue perfusion solutions and liquid-based cytology processing kits.

[vitroprep.com](http://vitroprep.com)

**Chemring Detection Systems Inc.**

(Charlotte) develops and manufactures chemical and biological agent detection systems, as well as explosive detection systems.

[chemringds.com](http://chemringds.com)

**Chem-Tex Laboratories Inc. (Concord)**

develops and manufactures specialty chemicals for the textiles, paper and industrial polymer industries. Its product Bac-Shield contains a natural microbial extracted from snow crab shells.

[chemtexlaboratories.com](http://chemtexlaboratories.com)

**Chemtura USA (Gastonia)** manufactures specialty chemicals and crop protection products.

[chemtura.com](http://chemtura.com)

**Chesson Laboratory Associates Inc.**

(Durham) develops prescription and over-the-counter polymer-based medical products for wound care and skin and nail care products.

[chessonlabs.com](http://chessonlabs.com)

**Chiesi USA Inc. (Cary)**

the U.S. affiliate of Chiesi Farmaceutici S.p.A, develops and commercializes products in the therapeutic areas of respiratory, cardiovascular, neonatology and cystic fibrosis.

[chiesiusa.com](http://chiesiusa.com)

**Chiltern International Inc. (Cary and Wilmington)**

conducts phase one through four global clinical trials across a broad range of therapeutic areas, functional service provision and contract staffing solutions.

[chiltern.com](http://chiltern.com)

**Chimerix Inc. (Durham)** discovers, develops and commercializes broad spectrum antivirals for the prevention and treatment of life-threatening viral infections.

[chimerix.com](http://chimerix.com)



**Syngenta**, a global ag biotech company founded in RTP, recently became the largest single investment by any Chinese company with the finalization of a \$43 billion buyout from Chinese state-owned China National Chemical Corp., aka ChemChina.

photo: Syngenta



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[nccommunitycolleges.edu](http://nccommunitycolleges.edu)

**Chirazyme Labs Inc.** (Washington) produces enzymes for stereospecific epoxidation intermediates in pharmaceutical synthesis.

[chirazyme.com](http://chirazyme.com)

**Circassia Pharmaceuticals Inc.** (Morrisville) designs and develops products to aid in the diagnosis and control of asthma, COPD and allergy.

[circassia.com](http://circassia.com)

**CivaTech Oncology Inc.** (Durham) develops radiation therapy devices to treat localized tumors. Cancers treated include colorectal, pelvic region, gynecologic, head and neck, brain and skin cancers. 💰

[civatechoncology.com](http://civatechoncology.com)

**CiVentiChem** (Cary) provides contract R&D services, medicinal chemistry, lead optimization, process R&D, cGMP manufacturing of APIs for clinical trials, cGMP/GLP analytical services, CMC consulting and custom synthesis of pharmaceutical intermediates and APIs.

[civenticem.com](http://civenticem.com)

**Clavé Biodesign Inc.** (Cary) develops cell-specific peptides which can be used for therapeutic purposes related to cancer, cardiovascular disease and ophthalmology as well as for diagnostic imaging and biomarkers.

[clavebiodesign.com](http://clavebiodesign.com)

**Clinical Sensors Inc.** (Research Triangle Park) is developing membrane technologies for point-of-care sensors that enable early detection and monitoring of critical diseases and conditions. Clinical Sensors is focused on both implantable devices and point-of-care diagnostics. 💰

[clinicalsensors.com](http://clinicalsensors.com)

**Clinipace Worldwide Inc.** (Morrisville) provides full-service global clinical development services for drug and medical device programs using its TEMPO eClinical platform, as well as regulatory and strategic consulting.

[clinipace.com](http://clinipace.com)

**Cloud Pharmaceuticals Inc.** (Research Triangle Park) designs novel drug molecules using high performance computing and proprietary technology. 💰

[cloudpharmaceuticals.com](http://cloudpharmaceuticals.com)

**Cmed Clinical Services** (Durham) provides clinical services to drug development organizations and manages early-phase studies (phase one through two b) with a focus in oncology, infectious disease, respiratory infection and cardiology.

[cmedresearch.com](http://cmedresearch.com)

**CMP Pharma Inc.** (Farmville) develops and manufactures semi-solid and liquid niche drug products.

[cmppharma.com](http://cmppharma.com)

**Cognosci Inc.** (Research Triangle Park) develops neurorestorative therapies for Alzheimer's disease, multiple sclerosis, traumatic brain injury, nerve crush and other disease and trauma indications. 💰

[cognosci.com](http://cognosci.com)

**Cohera Medical Inc.** (Raleigh) develops surgical adhesives for internal use for abdominoplasty procedures.

[coheramedical.com](http://coheramedical.com)

**Cohesion Phenomics LLC** (*Spindale*) is a CLIA-certified clinical diagnostic laboratory. Cohesion Phenomics also develops DNA sequencing tests for complex and single gene disorders within specific clinical areas such as cardiovascular disease.

[cohesionphenomics.com](http://cohesionphenomics.com)

**Columbia Life Systems Inc.** (*Chapel Hill*) is developing a computer-controlled oxygen blender for therapeutic research. 💰

**Concentrx Pharmaceuticals Inc.** (*Durham*) develops inhaled prescription products for asthma and COPD, including a unit dose disposable dry powder inhaler.

[concentrxpharma.com](http://concentrxpharma.com)

**Contego Medical LLC** (*Raleigh*) develops embolic protection devices for cardiovascular and peripheral vascular procedures, designed to simplify catheter-based procedures. 💰

[contegomedical.com](http://contegomedical.com)

**ConvaTec Inc.** (*Greensboro*) develops and manufactures therapies for the management of chronic conditions, with a focus on advanced wound care, ostomy care, continence and critical care and infusion devices. The Triad site is the company's Global Quality Headquarters.

[convatec.com](http://convatec.com)

**Cook Medical** (*Winston-Salem*) develops and manufactures devices used in gastrointestinal endoscopy to diagnose and treat esophageal, gastric, pancreatic, biliary and colonic disorders.

[cookmedical.com](http://cookmedical.com)

**Corning Life Sciences** (*Durham*) manufactures pipettes, conical and round-bottomed tubes, cell inserts, tissue-culture plates and ADME/Toxicology products.

[corning.com/worldwide/en/industries/life-sciences.html](http://corning.com/worldwide/en/industries/life-sciences.html)

**Cotton Incorporated's Agricultural & Environmental Research Division** (*Cary*)

improves cotton cultivation through genetic and biotechnology tools, enhancing yield, quality and resistance of cotton varieties.

[cottoninc.com](http://cottoninc.com)

**Countervail Corp.** (*Charlotte*) develops and commercializes products to protect against and treat exposure to chemical weapons and pesticide poisoning. 💰

[countervailcorp.com](http://countervailcorp.com)

**Couragen Biopharmaceuticals LLC** (*Durham*) develops gene and protein therapy products for pre-clinical and clinical use for the treatment of genetic and chronic diseases. Couragen also provides custom adeno-associated virus vectors as a tool for laboratory research.

**Covance Inc.** (*Durham and Research Triangle Park*), the drug development business of LabCorp, provides a wide range of early-stage and late-stage product development services primarily to the pharmaceutical and biotechnology industries. The RTP site specializes in bioanalytical and immunoanalytical services, specializing in GLP-compliant LC/MS/MS bioanalytical services for all phases of drug discovery and development.

[covance.com](http://covance.com)

**Craft Technologies Inc.** (*Wilson*) provides analytical and method development services to measure nutritional components in blood, tissues, dietary supplements, food and animal feed.

[crafttechnologies.com](http://crafttechnologies.com)

**Creative PEGWorks** (*Chapel Hill*) manufactures and supplies advanced functional polymer products for research. Creative PEGWorks also offers custom synthesis of polymers, APIs, amino acids and oligomers, as well as PEGylation services.

[creativepegworks.com](http://creativepegworks.com)

**Creative Scientist Inc.** (*Durham*) specializes in bioassay development, primary cell production and preclinical contract research services. They are also developing a radiation sensitivity cell-based assay.

[incellbio.com](http://incellbio.com)

**Crop Microclimate Management Inc.** (*Apex*) researches and develops technologies to improve crop productivity by mitigating the impact of environmental stresses.

[cropstress.com](http://cropstress.com)

**CSS-Dynamac** (*Durham*) provides health and safety services and scientific program support in the physical and life sciences. The Durham location provides environmental toxicity testing services.

[css-dynamac.com](http://css-dynamac.com)

**CTMG Inc.** (*Greenville and Raleigh*) provides site-specific clinical research management services, including patient recruitment, personnel, expertise and systems.

[ctmginc.com](http://ctmginc.com)

**Curasan Inc.** (*Durham*) offers synthetic and human biomaterials for bone and soft tissue applications in dental and orthopedic surgery. This location is the U.S. headquarters for sales and marketing.

[curasaninc.com](http://curasaninc.com)

**Curl Bio LLC** (*Durham*) develops drugs for the interrelated set of disorders involving Type 2 diabetes, obesity, fatty liver disease, metabolic syndrome and associated complications.

[curlbio.com](http://curlbio.com)



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[www.cushmanwakefield.com](http://www.cushmanwakefield.com)

Cushman & Wakefield's Science & Technology Team provides real estate advisement to companies of all stages in the science life cycle (from pre-clinical R&D to contract and full scale manufacturing).

Their expertise includes helping clients acquire or dispose of leased or owned office, laboratory, warehouse and build-to-suit product.

**Cygnus Technologies Inc.** (*Southport*) develops products and services for the biopharma industry, including host cell protein ELISA kits, immunoassay reagents and custom development of antibodies and assays.

[cygnustechnologies.com](http://cygnustechnologies.com)

**Cytex Therapeutics Inc.** (*Durham*) develops bio-artificial devices to treat osteoarthritis and other musculoskeletal diseases.

[cytetherapeutics.com](http://cytetherapeutics.com)

**Daily Manufacturing Inc. (Rockwell)** manufactures vitamins, minerals and herbals. The company also manufactures products for other supplement companies with their own brand names.

[daily-mfg.com](http://daily-mfg.com)

**David H. Murdock Research Institute (Kannapolis)** provides collaborators with genomics, proteomics, metabolomics, light microscopy, NMR, clinical chemistry, cellular biology and immunology services. DHMRI focuses on human health, nutrition and agriculture.

[dhmri.org](http://dhmri.org)

**DaVINCI Biomedical Research Products Inc. (Garner)** is an AAALAC-accredited contract lab that performs GLP and non-GLP preclinical animal studies. DaVINCI specializes in regenerative medicine, cardiovascular, orthopedic and medical device applications.

[davincibiomed.com](http://davincibiomed.com)

**Dharma Laboratories LLC (Durham)** develops dosage forms, including oral solids, liquids, injectables, topicals and specialty products.

[dharmapdlabs.com](http://dharmapdlabs.com)

**Diagnostic Chips LLC (Burlington)** develops and manufactures miniaturized biomedical diagnostic devices (lab-on-a-chip).

[diagnosticchips.com](http://diagnosticchips.com)

**Dignify Therapeutics LLC (Research Triangle Park)** develops bladder and bowel drug therapies for spinal cord-injured, multiple sclerosis and similar patient populations with voiding dysfunction. 💰

[dignifytherapeutics.com](http://dignifytherapeutics.com)

**DMC Limited (Durham)** is developing synthetic metabolic valve technology for rapid engineering of microbial hosts for the production of specialty chemicals, flavors, fragrances, nutraceuticals, natural products, pharmaceuticals and APIs.

[dmcbio.com](http://dmcbio.com)

**DMK Pharmaceuticals Inc. (Holly Springs)** develops small molecule analgesics that have reduced side effects, such as abuse potential, respiratory depression, nausea, vomiting and itching, that are currently associated with marketed analgesics.

**Dole Nutrition Research Laboratory (Kannapolis)** conducts research on phytochemicals found in fruits and vegetables.

[transforming-science.com/dole-nutrition-research-laboratory/](http://transforming-science.com/dole-nutrition-research-laboratory/)

**Drumetix Laboratories LLC (Greensboro)** provides bioanalytical support for drug metabolism, pharmacokinetics and toxicokinetic (DMPK, ADME) studies, as well as LC-MS/MS analysis of small-molecule biomarkers, such as neurotransmitters, all-trans retinoic acid and creatinine.

[drumetix.com](http://drumetix.com)



**Nypro's** factory near Asheville employs hundreds of people making specialty plastic products, including components for Novo Nordisk insulin devices packaged at Novo's huge Clayton diabetes drug plant.

photo: Nypro



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[ncbcjobs.ncbiotech.org](http://ncbcjobs.ncbiotech.org)

**DSK Biopharma Inc. (Morrisville)** provides custom synthesis and medicinal chemistry services. DSK develops and supplies fine chemicals, APIs and intermediates, scaffolds, inhibitors, amino acids, carbohydrates, peptides, coupling reagents and other compounds.

[dskbiopharma.com](http://dskbiopharma.com)

**Dualogics LLC (Chapel Hill)** researches and develops bispecific antibody products based on their proprietary OrthoMab platform. 💰

[dualogics.com](http://dualogics.com)

**Duke Clinical Research Institute (Durham)** is an academic clinical research organization that coordinates research projects including small pilot studies, multinational clinical trials, major national patient registries and landmark outcomes research.

[dcri.org](http://dcri.org)

**DuPont Pioneer - Kinston Research Center (Kinston)** conducts research on the conventional and transgenic development of corn, soybeans and other crops, with an emphasis on drought-resistant products.

[pioneer.com](http://pioneer.com)

**Eboo Pharmaceuticals Inc. (Raleigh)** develops small-molecule drugs targeted at the delta opioid receptor to treat Parkinson's disease, cardiac reperfusion injury and depression. 💰

[eboopharma.com](http://eboopharma.com)

**Ecoblend LLC (Pittsboro)** develops and manufactures organic weed and pest control products.

[ecoblend.green](http://ecoblend.green)

**Edison Agrosiences Inc. (Research Triangle Park)** is an agricultural biotechnology company that engineers yield improvements and the plant-based production of industrial materials, with a primary focus on the development of alternative rubber crops in sunflower.

[edisonagrosiences.com](http://edisonagrosiences.com)

**EG-GILERO (Asheboro)** provides contract design, development, manufacturing and commercialization for medical devices and drug delivery devices. The Asheboro site is a manufacturing facility.

[eg-gilero.com](http://eg-gilero.com)

**Ei, A Pharmaceutical SolutionWorks (Kannapolis)** develops and manufactures liquid, semisolid and powder prescription and nonprescription skin-care and animal-health products.

[eisolutionworks.com](http://eisolutionworks.com)

**Eisai Inc. (Raleigh)** discovers, develops and markets pharmaceuticals in neurology and oncology-critical care. This site supports global partnerships, quality assurance and supply chain for the company.

[us.eisai.com](http://us.eisai.com)

**Elanco Animal Health (Greensboro)** researches, develops and commercializes animal health products for pet owners, farmers and veterinarians.

[elanco.us](http://elanco.us)

**Element Genomics Inc. (Durham)** is developing a high-throughput platform for understanding gene regulatory elements in order to identify new drug targets for common diseases.

[elementgenomics.com](http://elementgenomics.com)

**EMSL Analytical Inc. (Charlotte, Kernersville, and Morrisville)** provides analytical services, including microbiology, asbestos, indoor air quality, metals and food testing.

[emsl.com](http://emsl.com)



**EN-CAS Analytical Laboratories**

(Winston-Salem) provides GLP-compliant analytical chemistry contract services for agrochemical, veterinary and bioanalytical research. EN-CAS has experience with preclinical and clinical trials support, pesticides, herbicides and veterinary drugs.

[en-cas.com](http://en-cas.com)

**EncepHeal Therapeutics Inc.**

(Winston-Salem) accelerates the early development of therapeutics to treat substance abuse and mental health disorders through working partnerships with academic institutions, private companies and foundations and government agencies.

[encepheal.com](http://encepheal.com)

**ENCO Pharmaceutical Development Inc.**

(Cary) provides comprehensive product development services to the pharmaceutical and medical device market.

[encopharma.com](http://encopharma.com)

**Endacea Diagnostics Inc.**

(Research Triangle Park) is developing EndaTox IVD, an in vitro sepsis diagnostic, and EndaTox Test, an assay to measure LPS endotoxin in biological and non-biological samples.

[endacea.com](http://endacea.com)

**Endacea Inc. (Research Triangle Park)**

develops A1 adenosine receptor antagonists as drug candidates for renal impairment and inflammation, including sepsis and asthma. 💰

[endacea.com](http://endacea.com)

**EnDev Laboratories (Kannapolis)**

offers topical research and development services for therapeutic skin care and prescription dermatological products. Services include formulation and process development, analytical development, technology transfer and regulatory solutions.

[endevlabs.com](http://endevlabs.com)

**EnSolve Biosystems Inc. (Raleigh)**

produces proprietary biologically-based treatment systems to address oily bilge water, "frack" water, process waste streams and scrubber water. They also manufacture bioenzymatic degreasers/detergents and oil-spill cleanup products. 💰

[ensolve.com](http://ensolve.com)

**Entegriion Inc. (Research Triangle Park)**

develops biologic and medical device technologies to enhance the safety and availability of the human blood supply. The company also provides blood supply-related contract R&D services to the U.S. Department of Defense. 💰

[entegriion.com](http://entegriion.com)

N.C. RANKS

# #8

Total number of  
life science workers in  
agricultural feedstocks  
and chemicals



**Entera Health Inc. (Cary)** develops medications for gastrointestinal conditions and HIV. Entera Health has proprietary R&D, clinical and commercial staffing talent capabilities.

[enterahealth.com](http://enterahealth.com)

**ENTEX Technologies Inc. (Chapel Hill)**

provides advanced biological and filtration wastewater treatment that can be customized for various industries.

[entexinc.com](http://entexinc.com)

**EntoGenetics Inc. (Charlotte)** engineers the production of spider silk at a commercial scale through the genetic transformation of silkworms. Spider silk is a very strong fiber that has applications in the biomedical, defense and textile industries. 💰

[entogenetics.com](http://entogenetics.com)

**ENVIGEN Pharmaceuticals Inc. (Durham)**

develops classes of small drug-like molecules to treat life-threatening diseases including cancer, HIV/AIDS and neurological disorders.

[envigenpharma.com](http://envigenpharma.com)

**Environmental Testing Solutions Inc.**

(Asheville) offers microbiological and chemical testing for drinking water and wastewater and aquatic biomonitoring toxicity testing.

[etsnclab.com](http://etsnclab.com)



**SoBran Bioscience**, a 700-employee privately held contract research organization headquartered in Fairfax, Va., established an animal care and research facility in 2016 at NCA&T, and an N.C. headquarters nearby.

photo: SoBran Bioscience

**Envisia Therapeutics Inc. (Durham)**

discovers and develops novel therapies to address significant unmet medical needs in ophthalmology.

[envisiatherapeutics.com](http://envisiatherapeutics.com)

**Enzerna Biosciences LLC (Chapel Hill)**

conducts mitochondrial DNA disease research and engineers site-specific RNA endonucleases capable of modulating RNA expression without permanent alteration of the target gene.

**EpiCypher Inc. (Research Triangle Park)**

develops and manufactures novel products and tools for epigenetics and chromatin biology, focused on enabling drug discovery research and development. 💰

[epicypher.com](http://epicypher.com)

**EPL Inc. (Durham)** provides GLP-compliant toxicologic pathology and related services including necropsy, histology, immunohistochemistry, pathology evaluation, EM, stereology, pathology peer reviews, specimen storage and consultation.

[epl-inc.com](http://epl-inc.com)

**Eppin Pharma Inc. (Chapel Hill)** is developing a non-hormonal male oral contraceptive. 💰

[eppinpharma.com](http://eppinpharma.com)

**Eton Bioscience Inc. (Research Triangle Park)**

specializes in DNA sequencing and offers other services such as gene and peptide synthesis, mutagenesis and mammalian cell expression.

[etonbio.com](http://etonbio.com)

**Eurofins Agrosience Services Inc. (Mebane)**

provides contract research services, product development consulting and technical support to the crop protection, agricultural biotechnology and pest control industries.

[eurofins.com/agrosienceservices.aspx](http://eurofins.com/agrosienceservices.aspx)

**Evecxia Inc. (Durham)** is developing a natural serotonin precursor for treatment-resistant depression.

[evecxia.com](http://evecxia.com)

**Exela Pharma Sciences LLC (Lenoir)**

develops and manufactures injectable, ophthalmic and inhalation pharmaceuticals. The Lenoir site is a sterile manufacturing facility, compliant with cGMP and other FDA regulations.

[exelapharma.com](http://exelapharma.com)



Biomufacturing Training and Education Center

## THE PLACE TO GO FOR ...

### Talent

Graduates of our undergraduate and graduate programs are sought by industry, quickly apply their hands-on biomanufacturing experience, and come from a variety of academic departments including:

- Chemical Engineering
- Biological Sciences
- Bioprocessing Science
- Microbiology

### Professional Development

Our Professional Development program offers both open enrollment and customized training courses. By attending a course at BTEC, you can:

- Learn how to apply current best practices
- Get job-focused, hands-on training with the latest technology
- Engage with our top-notch instructors
- Bundle courses to catapult your career

### Contract Services

Through its Bioprocess and Analytical Services groups, BTEC offers development and testing services. BTEC can:

- Supply research and preclinical material
- Collaborate on process development projects
- Generate process data for scale-up
- Offer services for assay development and validation, and analytical testing
- Test prototypes of new equipment

Since opening in 2007, BTEC has created a track record of success supporting the biopharmaceutical industry.

- Year after year, virtually all (97%–100%) of our NC State graduates get jobs within six months.
- Over 2,000 individuals from more than 200 organizations have completed one or more of our hands-on professional development courses.
- Our Bioprocess and Analytical Services groups leverage the expertise of BTEC's scientists, engineers, and operations staff in BTEC's state-of-the-art facilities. The 82,500-gross-square-foot main building and the 5,000-gross-square-foot BTEC annex feature more than \$15 million of industry-standard equipment and a simulated-GMP pilot plant.

Visit us at [www.btec.ncsu.edu](http://www.btec.ncsu.edu).



**Golden LEAF Biomufacturing Training and Education Center**  
850 Oval Drive  
Raleigh, NC 27606  
(919) 513-2000

**Exodos Life Science Partners**

(Chapel Hill) advances product concepts through the 505(b)(2) process to early clinical proof-of-principle and sale. Exodos specializes in topical formulations for the treatment of pain and inflammation.

[exodosls.com](http://exodosls.com)

**f(x) Immune Diagnostics Inc. (Candler)**

provides advanced testing services to developers of immuno-therapeutics and vaccines using its proprietary technologies. The company's pipeline includes related clinical diagnostics, POC and companion assays and systems. 💰

[fx-immune.com](http://fx-immune.com)

**Fair Products Inc.** (*Cary*) manufactures and distributes tobacco crop care products including insecticides, sucker control, ripeners and fertilizers.

[fairproductsinc.com](http://fairproductsinc.com)

**Falcon Therapeutics Inc.** (*Chapel Hill*) is developing personalized neural stem cell therapies to treat glioblastoma.

**Fennec Pharmaceuticals Inc.** (*Research Triangle Park*) develops cancer therapeutics. Its lead product under development is Eniluracil, an oral dihydropyrimidine dehydrogenase inhibitor to improve the tolerability and effectiveness of oncology drugs.

[fennecpharma.com](http://fennecpharma.com)

**Fervent Pharmaceuticals LLC** (*Greenville*) develops a nonhormonal product, FP-101, to treat vasomotor symptoms associated with menopause.

[ferventpharma.com](http://ferventpharma.com)

**FHI 360** (*Durham*) is a nonprofit human development organization that focuses on family planning, reproductive health and HIV/AIDS by advancing locally-driven solutions. The laboratory in Durham offers medical device and pharmaceutical testing services.

[fhi360.org](http://fhi360.org)

**FibroStatin Inc.** (*Raleigh*) develops treatments for drug resistant cancer and organ fibrosis using its proprietary GPBP technology that has identified a novel and preferred pathway for inhibiting the cell epithelial-to-mesenchymal transition (EMT).

[fibrostatin.com](http://fibrostatin.com)

**First Flight Biosciences Inc.** (*Cary*) provides contract drug discovery research services, including lead optimization in preclinical drug discovery, assay development, compound profiling, high-throughput screening, in vivo pharmacology, DMPK and bioanalytics.

[firstflightbioscience.com](http://firstflightbioscience.com)

**FLAG Therapeutics Inc.** (*Raleigh*) develops cancer therapeutics using new classes of small molecules which have selective dual activity: antiangiogenesis and chemotherapeutic.

[flagtherapeutics.com](http://flagtherapeutics.com)

**Fleming Laboratories Inc.** (*Charlotte*) manufactures animal pharmaceuticals.

**Flexcell International Corp.** (*Burlington*) designs and manufactures products for cytomechanics research, studying cellular responses to mechanical forces such as tension or compression.

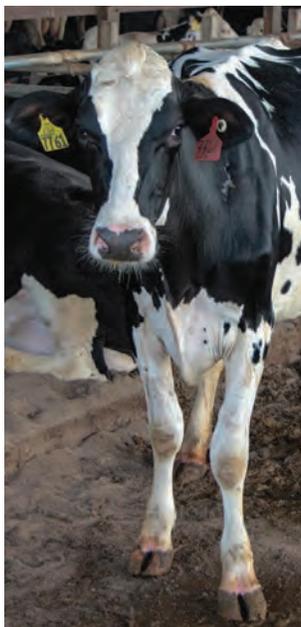
[flexcellint.com](http://flexcellint.com)

**FMC Agricultural Solutions** (*Research Triangle Park*), a unit of FMC Corp., develops biological crop protection products. The RTP location conducts research on plant-microbe interactions.

[fmccrop.com](http://fmccrop.com)

**Foothills Bio-Energies** (*Lenoir*) produces biodiesel from virgin agri-based feedstock.

[incominginc.com/operations/](http://incominginc.com/operations/)



North Carolina is a global leader in life sciences. See what we're doing for agriculture.

80+ companies, including **five** of the **six** world leaders, employing **8,900**

2 land grant universities

18 state-funded, public research stations

**North Carolina Biotechnology Center**

[ncbiotech.org/agbiotech](http://ncbiotech.org/agbiotech)



The University of North Carolina Wilmington's MARBIONC program focuses on marine biotech translational research. Several N.C. universities and community colleges offer programs involving marine biotech.

photo: UNC-Wilmington

#### **Foundation Medicine Inc. (Morrisville)**

develops clinical assays for solid tumors, hematologic malignancies and sarcomas and matches patients with targeted therapies and clinical trials. The Morrisville location is a testing laboratory.

[foundationmedicine.com](http://foundationmedicine.com)

**Frenova Renal Research (Durham)** provides phase one through four drug and device clinical development services exclusively for renal research. Services include renal clinical program development, maintenance of a renal research site network and bioinformatics and analytics.

[frenovarenalresearch.com](http://frenovarenalresearch.com)

#### **Fresenius Kabi USA LLC (Wilson)**

manufactures medical devices and sterile injection- and infusion-based drug-delivery products.

[fresenius-kabi.com](http://fresenius-kabi.com)

**FSC Pediatrics Inc. (Charlotte)** acquires and markets pharmaceutical products and medical devices, with a focus on unmet pediatric patient and practitioner needs.

[fscpediatrics.com](http://fscpediatrics.com)

#### **FUJIFILM Diosynth Biotechnologies USA Inc. (Morrisville)**

provides biologics contract development and manufacturing. Services include cell line development, process and analytical development, clinical and commercial manufacturing and bioprocess research and development.

[fujifilmdiosynth.com](http://fujifilmdiosynth.com)

**FusionBio Inc. (Chapel Hill)** develops novel treatments for immune-mediated diseases, including cancer and autoimmunity.

[fusionbiology.com](http://fusionbiology.com)

#### **G&W Laboratories LLC (Lincolnton)**

manufactures OTC and prescription hydrocortisone, antifungal and permethrin products as creams, ointments, liquids and suppositories.

[gwlabs.com](http://gwlabs.com)

#### **G1 Therapeutics Inc. (Research Triangle Park)**

develops small-molecule therapies to address significant unmet needs in oncology, with a focus in chemoprotection and antineoplastics. 💰

[g1therapeutics.com](http://g1therapeutics.com)

**Gaia Herbs Inc. (Brevard)** grows and produces certified organic herbal products, including liquid extracts, functional powders and herbal teas. All growing, manufacturing, processing, researching, packaging and distribution takes place in its North Carolina facilities.

[gaiaherbs.com](http://gaiaherbs.com)

**Galaxy Diagnostics Inc. (Morrisville)** offers molecular and serology testing for zoonotic and vector-borne infectious diseases for human and veterinary medicine and to support clinical research studies. 💰

[galaxydx.com](http://galaxydx.com)

**GBM Pharma Inc. (Durham)** develops drugs for the treatment of glioblastoma multiforme.

#### **GEM Tox Consultants & Labs Inc. (Greenville)**

conducts research focused on cancer biotechnology, food safety and toxicology, with a special emphasis on cancer biomarker discovery and validation.

[gemtoxlabs.com](http://gemtoxlabs.com)

**Gene Facelift LLC (Winston-Salem)** develops a cosmetic gene therapy in a topical cream formulation to reduce wrinkles, regenerate collagen and restore aging skin. The delivery platform will be used to develop wound healing drugs.

[genefacelift.com](http://genefacelift.com)

**Gene Master LLC (Cary)** provides contract biomedical research services such as genotyping and vector construction. Gene Master helps design and perform biological experiments.

[ncgenemaster.com](http://ncgenemaster.com)

#### **GeneCentric Diagnostics Inc. (Research Triangle Park)**

develops molecular diagnostic assays to enable oncologists and their patients to make informed, individualized treatment decisions.

[genecentric.com](http://genecentric.com)

**Geneffects LLC (Mebane)** provides proteogenomic analyses of data and has developed a proteogenomic search software called Peppy.

[geneffects.com](http://geneffects.com)

#### **Geneformation Technology Inc. (Belmont)**

is a cytogenetics company that develops and commercializes cell culture technology for peripheral blood, bone marrow and amniotic fluid.

[geneformation.com](http://geneformation.com)



**Grifols**, based in Barcelona, Spain, is investing \$210 million to build two new facilities at its existing \$370 million Clayton campus for the production of blood-derived therapeutics. It also has a major R&D facility in Research Triangle Park.

photo: Grifols

**Genemart Bioscience Inc. (Cary)**

manufactures antibodies, recombinant proteins, ELISA kits and critical assays. Genemart also provides contract R&D, process development and manufacturing services to the biopharmaceutical and academic lab communities.

**Genencine Therapeutics LLC (Durham)**

develops mRNA vaccines for the prevention and treatment of cancer, viral diseases and autoimmune diseases, as well as mRNA therapeutic drugs for genetic diseases.

[genencine.com](http://genencine.com)

**General Biosystems Inc. (Morrisville)**

provides oligo synthesis, gene synthesis biosystem optimization, protein expression and molecular biology services.

[generalbiosystems.com](http://generalbiosystems.com)

**General Mills Agricultural Research**

(Kannapolis) is developing an oat with higher and more consistent levels of beta-glucan in order to reduce cholesterol.

[transforming-science.com/general-mills/](http://transforming-science.com/general-mills/)

**Genetron Health Technologies Inc.**

(Research Triangle Park) provides mutation detection assays using its liquid biopsy platform, as well as various genetic assays to support both clinical and basic research. Genetron also offers custom assay development.

[us.genetronhealth.com](http://us.genetronhealth.com)

**GENEWIZ Inc. (Research Triangle Park)**

provides custom DNA sequencing, gene synthesis, genomics, next-generation sequencing and molecular biology in a GLP/cGMP regulatory environment.

[genewiz.com](http://genewiz.com)

**Genova Diagnostics Inc. (Asheville)**

performs diagnostics and molecular genetics testing under federally-designated clinical lab standards to support physicians in personalized chronic disease treatment and prevention.

[gdx.net](http://gdx.net)

**Glenmark Pharmaceuticals Inc., USA**

(Monroe) discovers small-molecule drugs and biologics to treat inflammation, metabolic disorders and pain. Glenmark also manufactures and distributes APIs and generics.

The Monroe site manufactures oral solids, injectables and topicals.

[glenmarkpharma.com](http://glenmarkpharma.com)

**Global Lyme Diagnostics LLC**

(Research Triangle Park) develops solutions to accurately diagnose Lyme disease in humans and domestic animals.

**Global Vaccines Inc. (Durham)** is a

not-for-profit company that develops vaccines against developing-country diseases such as HIV/AIDS, polio, dengue fever, malaria and viral diarrhea (rotavirus).

[globalvaccines.org](http://globalvaccines.org)

**Glycan Therapeutics Inc. (Chapel Hill)** is

developing a synthetic heparin and synthetic carbohydrates to aid researchers investigating multiple therapeutic areas.

[glycantherapeutics.com](http://glycantherapeutics.com)

**Glycotech Inc. (Leland)** is a contract

manufacturer using renewable biofarnesene from a partnership with Amyris to manufacture products such as biofuels, lubricants, cosmetics and other specialty chemicals. They have developed a process to convert cornmeal to ethanol.

**Goldsboro Laboratories LLC (Goldsboro)**

develops and manufactures vaccines for the swine, poultry and cattle divisions of Goldsboro Milling Company.

**Greenwich Biosciences**

(Research Triangle Park) develops cannabinoid prescription medicines and other plant-based pharmaceuticals.

[greenwichbiosciences.com](http://greenwichbiosciences.com)

Learn more about NCBIOTECH'S  
small business  
**LOANS**  
[ncbiotech.org/growth](http://ncbiotech.org/growth)

**Grifols Inc.** (Clayton, Raleigh, and Research Triangle Park) develops and produces plasma-derived products, including plasma therapies, hospital pharmacy products and diagnostic technology, to treat chronic and acute conditions in the therapeutic areas of immunology, pulmonology and hemostasis. The Centennial Campus site is an R&D bioanalytics facility. Grifols' Clayton plant is the company's primary manufacturing facility.  
[grifols.com](http://grifols.com)

**GSK** (Research Triangle Park) develops and manufactures vaccines and medicines for the treatment of infectious and respiratory diseases, central nervous system disorders, immuno-inflammation, diabetes and cancer. The RTP site is one of two U.S. corporate headquarters. GSK manufactures solid-dose products, including tablets and capsules at its Zebulon facility. The plant also does granulation, drying and packaging, and contract manufacturing of antibiotics for other companies.  
[gsk.com](http://gsk.com)

**GTCAllison LLC** (Mocksville) researches and develops diagnostic tests for animal pathogens.  
[gtcallison.com](http://gtcallison.com)

**Guerbet LLC** (Raleigh) manufactures contrast media used in diagnostic imaging tests.  
[guerbet-us.com](http://guerbet-us.com)

**Gyrus Pharmaceuticals Inc.** (Chapel Hill) is developing treatments for serious diseases of the central nervous system using proprietary therapeutic agents and nanoparticles for non-invasive delivery to the CNS.  
[gyruspharma.com](http://gyruspharma.com)

**Hammock Pharmaceuticals Inc.** (Charlotte) licenses and develops women's health and urology products. It is developing a metro-nidazole and clindamycin vaginal gel for the treatment of bacterial vaginosis and a urology product for the treatment of radiation cystitis.  
[hammockpharma.com](http://hammockpharma.com)

**Happy Jack Inc.** (Snow Hill) manufactures insecticides and pharmaceutical preparations to treat dogs.  
[happyjackinc.com](http://happyjackinc.com)

*NCBiotech company  
loans leverage*

**\$1 = \$108**  
*loan follow-on*

**HCEC LLC** (Winston-Salem) isolates cells from donor corneas to grow replacement corneal tissue on a scaffold as a bioengineered equivalent to the current standard of care.  
[hcecllc.com](http://hcecllc.com)

**HDH Pharma Inc.** (Morrisville) provides contract chemistry research services to pharmaceutical and biotechnology companies. Services include medicinal and process chemistry; organic synthesis; and the provision of API intermediates, inhibitors and screening compounds.  
[hdhpharma.com](http://hdhpharma.com)

**Health Decisions Inc.** (Durham) is a global clinical research organization that specializes in applying adaptive principles to both trial design and operations.  
[healthdec.com](http://healthdec.com)

**Healthspan Diagnostics LLC** (Durham) develops biomarkers of aging for clinical use to help physicians predict risk of chemotherapy-induced toxicities and surgery-associated adverse events in various patient groups.  
[healthspandiagnostics.com](http://healthspandiagnostics.com)

**Heat Biologics Inc.** (Durham) develops therapeutic vaccines to combat a range of cancers and infectious diseases.   
[heatbio.com](http://heatbio.com)

**Hemo Bioscience Inc.** (Morrisville) is an FDA-registered, ISO 13485 accredited manufacturer of blood-typing reagents and diagnostics for the blood-banking industry.  
[hemobioscience.com](http://hemobioscience.com)

**Hemodynamic Therapeutics** (Durham) develops a small-molecule combination therapy for obesity-related hypertension.  
[hemodynamictx.com](http://hemodynamictx.com)

**Hemoglobin Diagnostics LLC** (Research Triangle Park) develops diagnostic tests for clinically relevant hemoglobin variants for use in screening, confirmations and point-of-care facilities.

**HepatoSys Inc.** (Cornelius) develops technologies for functional restoration of donor livers for use in transplantation and research, focusing on methods for expanding availability of quality human hepatocytes for research and toxicity testing.  
[hepatosys.com](http://hepatosys.com)

**Heteroz LLC** (Durham) supplies building blocks and screening compounds for research and development and provides custom synthesis of organic and inorganic compounds for the chemical, pharmaceutical and agrochemical industries.  
[heteroz.com](http://heteroz.com)

**High Point Clinical Trials Center** (High Point) conducts phase one and two clinical research studies to test emerging drugs for pharmaceutical companies.  
[hpcrtrialscenter.com](http://hpcrtrialscenter.com)

**HOMS LLC** (Pittsboro) develops, manufactures and markets natural products for pest management.  
[homs.com](http://homs.com)

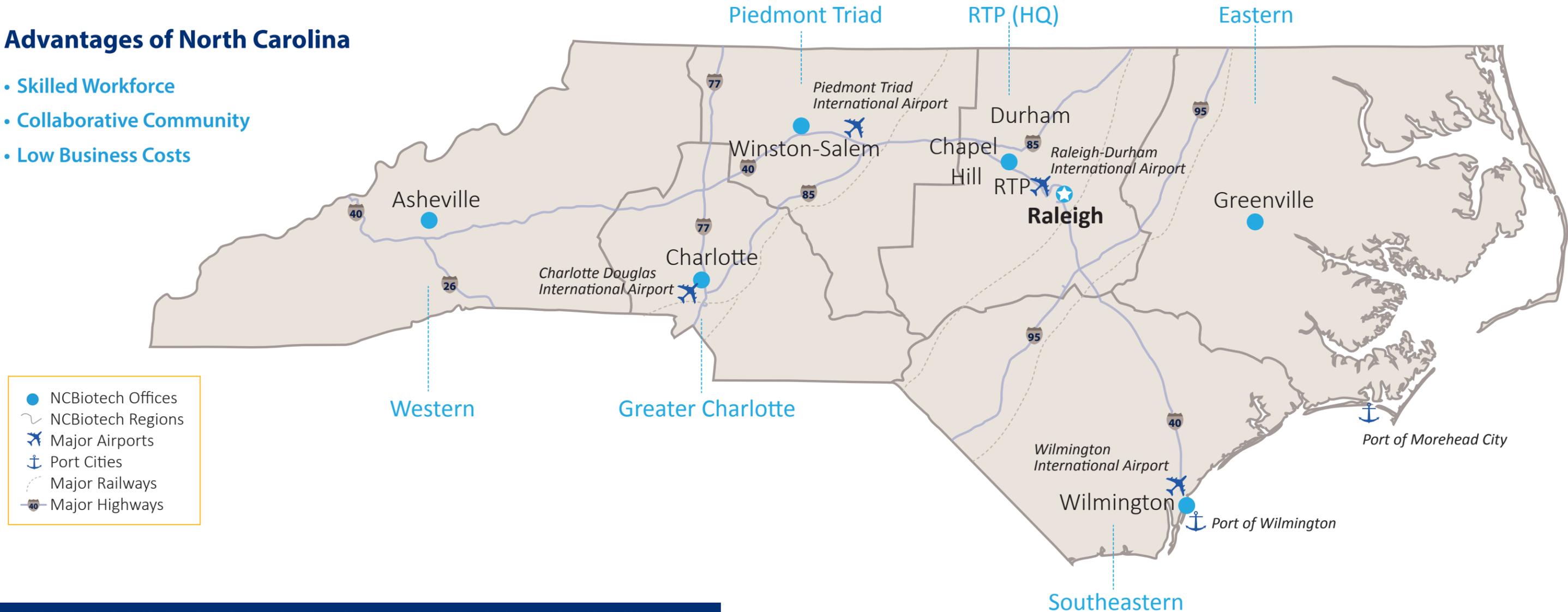
**Hongene Biotechnology USA Inc.** (Morrisville) develops and manufactures bio-reagents such as nucleosides, nucleotides and phosphoramidite products.  
[hongeneusa.com](http://hongeneusa.com)

**Hospira, A Pfizer Company** (Rocky Mount) manufactures injectable hospital products. The facility also provides contract manufacturing services such as aseptic filling, lyophilization and terminal sterilization.  
[hospira.com](http://hospira.com)

# Transforming North Carolina Through Life Sciences

## Advantages of North Carolina

- Skilled Workforce
- Collaborative Community
- Low Business Costs



## DEVELOPING LIFE SCIENCE ASSETS STATEWIDE

**650+ companies with 63,000 total workforce, statewide.**

### EASTERN

Regional Office: Greenville  
 +1 252.328.9981  
 Mark Phillips, Executive Director  
[ncbiotech.org/east](http://ncbiotech.org/east)

*Key Sectors:*

- Ag Biotech
- Functional Biofuels
- Marine Biotech

### GREATER CHARLOTTE

Regional Office: Charlotte  
 +1 704.687.8563  
 Corie Curtis, Executive Director  
[ncbiotech.org/charlotte](http://ncbiotech.org/charlotte)

*Key Sectors:*

- Bioinformatics
- Health and Nutrition
- Biomedical Technologies

### PIEDMONT TRIAD

Regional Office: Winston-Salem  
 +1 336.725.6672  
 Nancy Johnston, Executive Director  
[ncbiotech.org/triad](http://ncbiotech.org/triad)

*Key Sectors:*

- Regenerative Medicine
- Nanobiotechnology
- Medical Devices

### RESEARCH TRIANGLE PARK

Headquarters: Research Triangle Park  
 +1 919.541.9366  
[ncbiotech.org](http://ncbiotech.org)

*Key Sectors:*

- Biomanufacturing
- Contract Research
- Ag Biotech

### SOUTHEASTERN

Regional Office: Wilmington  
 +1 910.398.2385  
 Randall Johnson, Executive Director  
[ncbiotech.org/southeast](http://ncbiotech.org/southeast)

*Key Sectors:*

- Marine Biotech
- Contract Research
- Pharmaceuticals and Nutraceuticals

### WESTERN

Regional Office: Asheville  
 +1 828.290.1432  
 Jonathan Snover, Executive Director  
[ncbiotech.org/west](http://ncbiotech.org/west)

*Key Sectors:*

- Medical Devices
- Natural Products
- Fermentation

**Howard Associates LLC**

(Research Triangle Park) offers preclinical contract research to the pharma industry, primarily on rodent models to predict the efficacy of experimental compounds for CNS diseases and to predict side effects. The company also offers science editing and writing.

[howardassociates.net](http://howardassociates.net)

**HRF Inc. (Raleigh)** is a plasma center that provides human blood plasmas for bioscience research.

[hrfinc.com](http://hrfinc.com)

**Humacyte Inc. (Morrisville)** develops a technology platform that isolates and grows stable investigational human tissue replacements with potential regenerative medicine, vascular and non-vascular surgery applications. 💰

[humacyte.com](http://humacyte.com)

**Huvepharma Inc. (Maxton)** manufactures Coccidiosis vaccines for in ovo and post-hatch vaccination of poultry.

[huvepharma.com](http://huvepharma.com)

**Hyperbranch Medical Technology Inc.**

(Durham) is a biosurgical device company focused on the design, development and manufacture of resorbable surgical sealants for general and specialty surgery use.

[hyperbranch.com](http://hyperbranch.com)

**Icagen Inc. (Durham)** partners with global pharmaceutical and biotech companies to generate high-quality, advanced leads, with expertise in kinases, GPCR's, ion channels and transporters.

[icagen.com](http://icagen.com)

**ICON Clinical Research LLC (Durham)**

provides drug development and clinical services, from compound selection to phase one through four clinical studies, in areas including oncology, cardiovascular and biosimilars.

[iconplc.com](http://iconplc.com)

**Ideal Health Biotechnology LLC**

(Kannapolis) researches and develops dietary supplements made from plant-based compounds, including products derived from grape seed extract and algae for digestion, eye disease and diabetes.

**IDEXX Reference Laboratories Inc.**

(Greensboro) provides animal health diagnostic products and services for use in small animals, equine, poultry and dairy livestock. It also provides microbiology-based water testing products.

[idexx.com/corporate/home.html](http://idexx.com/corporate/home.html)

**ImmunogeniX Research LLC (Asheville)**

provides a cryonics biorepository for storage of patient tumor cell samples, with the goal of using those cells in tumor vaccine immunology.

[immunogenixresearch.com](http://immunogenixresearch.com)

**Immunolight LLC (Belville)** develops immune modulating photopheresis technology to treat cancer tumors.

[immunolight.com](http://immunolight.com)

**ImmunoReagents Inc. (Raleigh)**

manufactures primary and secondary polyclonal antibodies used in research and in vitro diagnostics for the pharmaceutical and veterinary markets.

[immunoreagents.com](http://immunoreagents.com)

**Inanovate Inc. (Research Triangle Park)**

develops nanostructured biochip substrates for high-throughput protein screening and analysis. The company also provides a variety of microarray services such as protein printing/ arraying and assay development. 💰

[inanovate.com](http://inanovate.com)

**INC Research Inc. (Raleigh and Wilmington)**

provides phase one through four contract research services across a variety of therapeutic areas, with the capability to work with special populations, such as women and children. Raleigh is INC's corporate headquarters.

[incresearch.com](http://incresearch.com)

**Indexus Biomedical LLC (Durham)**

designs, develops and manufactures instrument systems, reagents and assays for in vitro diagnostics, initially focusing on the hematology and immunology markets. 💰

[indexusbiomed.com](http://indexusbiomed.com)

**Indicus Pharma LLC (Raleigh)**

develops generic formulations in oral solid dosage forms, parenterals and ophthalmics. Products are manufactured at a partner facility in India.

[indicuspharma.com](http://indicuspharma.com)

**IngateyGen LLC (Elizabeth City)**

develops and produces hypoallergenic peanuts and fortified and enriched peanuts and yams through genomic and proteomic technologies.

[ingateygen.com](http://ingateygen.com)

**Ingredion Inc. (Winston-Salem)**

manufactures ingredients for foods, beverages and drugs from corn, tapioca, wheat and potatoes.

[ingredion.com](http://ingredion.com)

**Intos Pharmaceuticals LLC (Chapel Hill)**

is developing a platform delivery technology for nucleic acid therapeutics to develop agents to enhance intracellular delivery of oligonucleotides, peptides and proteins.



Researchers at the NC State University College of Veterinary Medicine address critical issues in biomedical, agricultural, and biological sciences through experimental approaches and techniques ranging from basic discovery to molecular biology.

photo: NCSU/Roger Winstead



**Novo Nordisk Pharmaceutical Industries**, based in Denmark, is completing a \$2 billion expansion of its diabetes medicines site in Clayton. As big as seven football fields, the expansion is the single largest manufacturing investment in N.C. history

photo: Novo Nordisk

**Inivata Inc.** (*Research Triangle Park*) develops a non-invasive liquid biopsy diagnostic using the precision of circulating tumor DNA (ctDNA) analysis for improving cancer detection and assessing individual response to treatment.

[inivata.com](http://inivata.com)

**Innatrix Inc.** (*Chapel Hill*) is developing a novel affinity selections system to replace phage display.

**InnaVasc Medical Inc.** (*Durham*) designs and develops products for vascular access. The company's first technology is an arteriovenous graft (AVG) modification that facilitates graft access and safety in hemodialysis. 💰

[innavasc.com](http://innavasc.com)

**Innocrin Pharmaceuticals Inc.** (*Durham*) discovers and develops a novel small-molecule CYP17 lyase inhibitor that can be taken orally to treat castration-resistant prostate cancer.

[innocrinpharma.com](http://innocrinpharma.com)

**Innovate Biopharmaceuticals Inc.** (*Raleigh*) is developing novel medicines for gastroenterological and orphan disorders.

[innovatebiopharma.com](http://innovatebiopharma.com)

**Innovative Neurophysiology Inc.** (*Durham*) designs and develops advanced tools, equipment and methodology for neuroscience research.

[inphysiology.com](http://inphysiology.com)

**Intarcia Therapeutics Inc.** (*Research Triangle Park*) is developing a continuous subcutaneous delivery system for the treatment of Type 2 diabetes. The RTP location discovers and develops peptide therapeutic drugs to augment Intarcia's drug delivery platform.

[intarcia.com](http://intarcia.com)

**Integrated Laboratory Systems Inc.** (*Morrisville*) provides GLP toxicology, histopathology, molecular biology and research and development services to government and commercial clients in agro-chemical, biopharmaceutical and environmental industries.

[ils-inc.com](http://ils-inc.com)

**Intelligent Implant Systems LLC** (*Charlotte*) designs and develops medical devices for the spine.

[intelligentimplantsystems.com](http://intelligentimplantsystems.com)

**InTox Biotech** (*Middlesex*) provides research and consulting in the areas of pesticide toxicology, immuno- and nucleic acid-based diagnostics, molecular biology, genomics, human and animal environmental risk assessment, forensic toxicology and arthropod control.

**inVentiv Health Clinical** (*Cary*) provides global drug development services to pharmaceutical, biotechnology, generic drug and medical device companies.

[inventivhealthclinical.com](http://inventivhealthclinical.com)

**IRIS BioMed LLC** (*Chapel Hill*) is developing a wavelength-encodable compound that delivers therapeutic agents to diseased sites with spatial and temporal precision. Potential applications include cancer, auto-immune diseases and vascular disorders.

[irisbiomed.com](http://irisbiomed.com)

**Isagro USA Inc.** (*Morrisville*), a wholly owned subsidiary of Isagro SpA, sells and markets crop protection products. The Morrisville office is a sales office.

[isagro-usa.com](http://isagro-usa.com)

**ISTARI Oncology Inc.** (*Durham*) is developing a glioblastoma treatment that uses a modified poliovirus to target cancer cells.

**JABB of the Carolinas Inc.** (*Pine Level*) develops and manufactures fungal pesticides and biopesticide products. Products are distributed through its partner company, Terregena.

[terregena.com](http://terregena.com)

**JC Med LLC** (*Kannapolis*) develops algae-based supplements and point-of-care diagnostics for evaluating insulin sensitivity.

[jcmed-usa.com](http://jcmed-usa.com)

**JLA International Inc.** (*Edenton*) provides testing and analytical services for the food and beverage industry. It also provides technical consulting services.

[jlaglobal.com](http://jlaglobal.com)

**Kaio Therapy LLC** (*Raleigh*) develops immunotherapy technology to treat solid tumors. 💰

[kaiotherapy.com](http://kaiotherapy.com)

**KaryoLogic Inc.** (*Durham*) provides chromosome analysis services to research laboratories. Services include karyotyping of human, rat and mouse cell lines.

[karyologic.com](http://karyologic.com)

**Katharos Inc.** (*Apex*) is developing a phosphate-selective adsorption blood filtering medical device to treat high blood phosphate levels in end-stage renal disease hemodialysis patients.

[gust.com/companies/katharos\\_inc](http://gust.com/companies/katharos_inc)

**KBI Biopharma Inc.** (*Durham and Research Triangle Park*) offers contract development and biopharmaceutical manufacturing services such as formulation, analytical method development, stability services, process development and recombinant protein API manufacturing. The Durham site is KBI's headquarters. The RTP site is KBI's process development facility. 💰

[kbibiopharma.com](http://kbibiopharma.com)

**KemPharm Inc.** (*Durham*) discovers and develops new chemical entities to treat pain, ADHD and CNS disease.

[kempharm.com](http://kempharm.com)

**Kepley Biosystems Inc.** (*Greensboro*) employs nanotechnology to develop applications that have commercial potential in the life science sector. They are currently developing a synthetic crustacean bait.

[kepleybiosystems.com](http://kepleybiosystems.com)

**KeraNetics LLC** (*Winston-Salem*) develops and commercializes keratin-based biomaterials for therapeutic and regenerative medical applications. 💰

[keranetics.com](http://keranetics.com)

**KindHeart Inc.** (*Chapel Hill*) develops, markets, sells and rents cardiac and thoracic real tissue surgical simulators. Simulators are used for training for new technology, including robotic surgery, hemostasis and sealants. 💰

[kindheart.com](http://kindheart.com)

**King Bio Inc.** (*Asheville*) develops and manufactures water-based homeopathic medicines and supplements for human and companion-animal health. King Bio also provides contract manufacturing services.

[kingbio.com](http://kingbio.com)

**Kowa Research Institute Inc.** (*Morrisville*), a division of Kowa Company Ltd., develops therapeutic drugs for the treatment of cardio-metabolic diseases such as diabetes and atherosclerosis, pain and sensory organ disorders.

[kowaus.com](http://kowaus.com)

**Krenitsky Pharmaceuticals Inc.** (*Chapel Hill*) discovers and develops drug candidates, with a focus on disorders of the nervous system.

[kpi-pharma.com](http://kpi-pharma.com)



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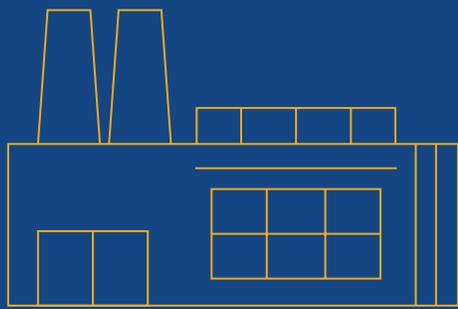


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**kSep Systems LLC** (*Morrisville*) develops bioprocessing solutions and technology for companies working with recombinant therapeutics, cell therapy and vaccine manufacturing.

[sartorius.com/ksep-systems](http://sartorius.com/ksep-systems)

**Laudiss Labs LLC** (*Winston-Salem*) uses advanced proprietary platform technologies for quantitative DNA and protein testing of GMOs, foodborne pathogens and mycotoxins in food and feed.

[laudiss.com](http://laudiss.com)

**LifeScape Biosciences Inc.** (*Charlotte*) develops prescription and nonprescription (OTC) pharmaceutical products and medical foods made from FDA-designated "generally regarded as safe" (GRAS) substances.

[lifescapebio.com](http://lifescapebio.com)

**KXTbio Inc.** (*Cary*) develops and commercializes reagents and assays for two major classes of drug targets, GTPases and G protein-coupled receptors.

[kxtbio.com](http://kxtbio.com)

**LCMS Limited** (*Durham*) provides LC/MS/MS services for the identification and quantification of compounds like proteins, biomarkers, peptides and mAb's. LCMS specializes in detecting cross contamination from manufacturing in food and drugs and provides custom training.

[lcmslimited.com](http://lcmslimited.com)

**Lindy Biosciences LLC** (*Durham*) develops protein therapeutic formulations for non-standard formulations such as suspension formulations (for high-concentration delivery of antibodies), encapsulation (for sustained/controlled release) or dry powder pulmonary delivery.

[lindybio.com](http://lindybio.com)

**Laboratory Corporation of America** (*Burlington, Kannapolis, Morrisville, Raleigh, and Research Triangle Park*) provides clinical and anatomical laboratory services, including clinical trials testing services, and offers a broad range of genomic and esoteric tests. LabCorp's Center for Occupational Testing in Morrisville provides urine, hair, oral fluid and point-of-collection drugs-of-abuse testing services. The LabCorp Biorepository in Kannapolis is a state-of-the-art biorepository that has the capacity to house 15 million samples. LabCorp Raleigh develops specialized cardiovascular diagnostic laboratory tests based on nuclear magnetic resonance (NMR) technology. LabCorp's Center for Molecular Biology and Pathology in Research Triangle Park provides laboratory testing services focused in diagnostic genetics, oncology and pathology.

[labcorp.com](http://labcorp.com)

**Leaf Technologies** (*Durham*) provides yeast strains and fermentation solutions for fuel ethanol and bio-based chemical producers. Leaf Technologies is a business unit of Lesaffre.

[leaftechnologies.com](http://leaftechnologies.com)

**Liquidia Technologies Inc.** (*Morrisville*) utilizes PRINT technology, a unique particle engineering and manufacturing technology, to develop products in several high-growth areas such as pulmonary, pain, dermatology, ophthalmology and oral health.

[liquidia.com](http://liquidia.com)

**LemnaTec Corp.** (*Research Triangle Park*) offers non-invasive sensor-based phenotyping of plants and other organisms for academia and industry.

[lemnatec.com](http://lemnatec.com)

**Locus Biosciences Inc.** (*Morrisville*) is developing next-generation CRISPR technology for programmed cell death to kill target bacteria. This platform enables the development of therapeutics for disease areas ranging from resistant bacterial infections to the microbiome. 💰

[locus-bio.com](http://locus-bio.com)

**LifeNet Health** (*Research Triangle Park*) provides transplant solutions, including cellular therapy research, organ procurement and bio-implant. The North Carolina facility isolates liver cells and adult stem cells for applications in drug discovery and toxicity testing.

[lifenethealth.org](http://lifenethealth.org)

**LotusBioEFx LLC** (*Chapel Hill*) develops venous catheters impregnated with nanoscale clusters of metal alloys to inhibit formation of bacterial biofilms. 💰



Stephanie Lipscomb (left) is being treated at the Duke University Medical Center where an NCBIotech grant is helping investigators develop a polio virus-based immunotherapy to treat glioblastoma, an aggressive brain cancer for which no effective treatment is available.

photo: Duke

**Lucerno Dynamics LLC (Morrisville)** is commercializing a noninvasive device for quality assurance and control in nuclear medicine imaging. Future applications of the technology include immunotherapy and chemotherapy assessment. 💰  
[lucernodynamics.com](http://lucernodynamics.com)

**Lumetica Inc. (Durham)** is developing a retinal optical coherence tomography (OCT) system for point-of-care use.  
[lumetica.co](http://lumetica.co)

**Lundbeck NA Ltd. (Charlotte)** is a pharmaceutical development company that acquires and develops products for the treatment of various human diseases, including central nervous system disorders.  
[lundbeck.com/us](http://lundbeck.com/us)

**MAA Laboratories Inc. (Cary)** is reformulating and commercializing existing proprietary anti-cancer small molecules, with the purpose of enhancing therapeutic efficiency for targeted drug delivery and mitigating undesirable effects of currently approved drugs. 💰  
[maalaboratories.com](http://maalaboratories.com)

**Magstim Inc. (Morrisville)** develops transcranial magnetic stimulators as a treatment for nerve and brain disorders.  
[magstim.com](http://magstim.com)

**Mallinckrodt Pharmaceuticals (Raleigh)** manufactures acetaminophen, the active ingredient in Tylenol, at its pharmaceutical facility in Raleigh.  
[mallinckrodt.com](http://mallinckrodt.com)

**MARBIONC Development Group LLC (Wilmington)** is a not-for-profit organization that develops and markets new products and technologies derived from marine and aquatic organisms.  
[marbionc.org](http://marbionc.org)

**Marble Labs LLC (Winston-Salem)** provides contract testing, process development, laboratory services and FDA and international regulatory expertise to biotechnology companies.

**Marius Pharmaceuticals LLC (Raleigh)** develops therapeutic treatments, with a focus on oral testosterone replacement therapies for adult men.  
[mariuspharma.com](http://mariuspharma.com)

**Maverick Synfuels (Research Triangle Park)** converts biomass, municipal waste and natural gas into petroleum-free fuels and chemicals.  
[maverickbiofuels.com](http://maverickbiofuels.com)

**MD Scientific LLC (Charlotte)** developed the EndoTool Glucose Management System and is currently developing a drug to prevent kidney and heart injury from iodinated contrast agents.  
[mdscientific.com](http://mdscientific.com)

**MDxHealth Inc. (Hillsborough)** develops epigenetic technologies to personalize the diagnosis and treatment of cancer.  
[mdxhealth.com](http://mdxhealth.com)

**Med-El Corporation USA (Durham)** researches and develops cochlear implant technology. The Durham location manufactures cochlear implants and is also the North American headquarters.  
[medel.com/us](http://medel.com/us)

**Medicago USA Inc. (Durham)** develops vaccines based on proprietary manufacturing technologies and virus-like particles. The vaccines are manufactured using a transient protein expression system in *Nicotiana benthamiana*, a close relative of tobacco.  
[medicago.com](http://medicago.com)

**Medical Murray (Charlotte)** is a contract developer and manufacturer of medical devices with a focus on minimally-invasive systems, permanent implants, injection molding and specialty materials (e.g. bioabsorbables and nitinol).  
[medicalmurray.com](http://medicalmurray.com)

**MedKoo Biosciences Inc. (Morrisville)** manufactures, sells and distributes small-molecule anticancer chemical reagents and kinase inhibitors for oncology research and provides drug discovery contract research services.  
[medkoo.com](http://medkoo.com)

**MedPharm (Durham)**, through its US subsidiary MP Pharma Services, provides contract topical and transdermal product research and development.  
[medpharm.co.uk](http://medpharm.co.uk)

**MEDTOX Diagnostics Inc. (Burlington)** manufactures and distributes instant drugs of abuse testing devices for use by the government, hospital/medical center and workplace markets. 💰  
[medtoxdiagnostics.com](http://medtoxdiagnostics.com)

**Medtronic Inc.** (*Morrisville*) develops and manufactures medical technology to treat chronic diseases. The Morrisville site develops medical devices and technology to treat vascular diseases.

[medtronicendovenous.com](http://medtronicendovenous.com)

**Medyn Bioscience LLC** (*Durham*) provides customized reagents for diagnostic testing and recombinant virus antigens for in-vitro diagnosis. MedynBio also conducts research of blood diseases and disorders.

[medynbio.com](http://medynbio.com)

**Merck & Co. Inc.** (*Durham and Wilson*) manufactures elements of Varivax, a chicken pox vaccine, and other vaccine products in Durham. Merck's Wilson facility produces patented prescription products and performs granulation and tableting operations.

[merck.com](http://merck.com)

**Mercury Science Inc.**

(*Research Triangle Park*) develops novel and customized methods for the analysis of toxins, with expertise in environmental analysis of soil, water and food.

[mercuryscience.com](http://mercuryscience.com)

**Meridian Laboratory Corp.** (*Charlotte*)

provides CLIA-certified and COLA-accredited patient testing services, as well as testing of water quality for use in dialysis.

[meridianlaboratory.com](http://meridianlaboratory.com)

**Meryx Inc.** (*Chapel Hill*) is developing

small-molecule, orally bioavailable RTK inhibitors that inhibit growth and initiate anti-tumor immunity in hematologic and solid malignancies.

[meryxpharma.com](http://meryxpharma.com)

**Merz North America Inc.** (*Raleigh*)

develops and commercializes innovative treatment solutions in aesthetics, dermatology and neurosciences.

[merzusa.com](http://merzusa.com)

**Metabolon Inc.** (*Durham*) develops platforms and informatics systems for biomarker discoveries, diagnostic tests and precision medicine and other life science applications. Metabolon also offers metabolomics research services to academic and commercial partners.

[metabolon.com](http://metabolon.com)

**Metalytics LLC** (*Morrisville*) develops software technologies and provides sample analysis services to assess cellular metabolism in order to optimize cell-based manufacturing of biochemicals, drugs and foods.

[metalytics.bio](http://metalytics.bio)

**Metrics Contract Services** (*Greenville*)

provides analytical and formulation development services for oral solid dose pharmaceutical products. Services include potent products, controlled substances, modified release, first-in-human, CTM and commercial manufacturing.

[metricsinc.com](http://metricsinc.com)

**Micell Technologies Inc.** (*Durham*)

develops combination-product therapies for interventional cardiology. Micell markets MiStent, a drug-eluting stent, in Europe and certain other regions.

[micell.com](http://micell.com)

**Microbac Laboratories Inc.** (*Fayetteville*

*and Wilson*) offers microbiological testing and sampling services for wastewater, environmental and food safety purposes at its laboratory in Fayetteville. Microbac offers chemical and microbiological testing services for the agrochemical, pharmaceutical, tobacco and consumer products industries at its GMP-compliant, ISO 17025 accredited (A2LA) laboratory in Wilson.

[microbac.com](http://microbac.com)

**Microban International Ltd.** (*Huntersville*)

develops and manufactures antimicrobial, odor control and surface modification technologies used in consumer, industrial and medical products. Microban also provides contract bacterial and fungal testing in BSL-2 test labs.

[microban.com](http://microban.com)

**Midatech Pharma US Inc.** (*Raleigh*)

develops and commercializes oncology treatments and supportive care.

[midatechpharma.com](http://midatechpharma.com)

**Midnight Pharma LLC** (*Morrisville*)

is developing a treatment for insomnia.

**Mimetics LLC** (*Durham*) provides a

suite of bio-computation algorithms for analyzing cellular-level networks from gene expression data. 

[mimeticsbiosci.com](http://mimeticsbiosci.com)

**Minu LLC** (*Pittsboro*) researches and develops

ophthalmology products.

**Mirimichi Green Express LLC** (*Castle Hayne*)

manufactures non-toxic landscape products, including turf and tree care products, seed and soil enhancers and protectants, and weed and grass control herbicides.

[mgpro.com](http://mgpro.com)

**Mispro Biotech Services Corp.**

(*Research Triangle Park*) provides contract research, vivarium space, remote animal husbandry services and remote facility management.

[misprobiotech.com](http://misprobiotech.com)



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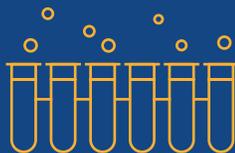
# MARKET RESEARCH

[ncbiotech.org/library](http://ncbiotech.org/library)

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of workers



RESEARCH, TESTING,  
AND MEDICAL LABS



**Mlinzi Vaccines LLC** (*Raleigh*) is developing and commercializing customizable, portable, 3D architected structures for rapid regeneration of affected tissue.

[mlinzi.com](http://mlinzi.com)

**Mokobio Biotechnology Group** (*Research Triangle Park*) develops rapid nucleic acid detection technologies for infectious disease pathogens. The RTP location is the company's R&D headquarters.

[rtp.org/location/the-lab/mokobio-biotechnology-group](http://rtp.org/location/the-lab/mokobio-biotechnology-group)

**Molecules in Action LLC** (*Chapel Hill*) provides custom molecular modeling, virtual drug screening, molecular simulations and consulting services.

[moleculesinaction.com](http://moleculesinaction.com)

**MOLTOX** (*Boone*) manufactures reagents, assay kits and other products for genetic toxicology research and testing, as well as products for industrial microbiology and quality control.

[moltox.com](http://moltox.com)

**Momentum Research Inc.** (*Durham*) manages and directs phase one through four clinical research projects and specializes in cardiovascular clinical trials management.

[momentum-research.com](http://momentum-research.com)

**MonomerChem Inc.** (*Durham*) provides contract drug development services, including custom synthesis, medicinal chemistry, lead optimization and synthesis of reference standards and metabolites.

[customsynthesis.com](http://customsynthesis.com)

**Monsanto Co.** (*Mount Olive*) is a crops research station.

[monsanto.com](http://monsanto.com)

**Mucodel Pharma LLC** (*Greensboro*) develops technologies for enhancing drug delivery via mucosal routes of administration. Its first candidate is a buccal gel for emergency treatment of opioid overdose.

[exonal.com](http://exonal.com)

**Mucommune LLC** (*Chapel Hill*) researches improved protection against infectious diseases transmitted at mucosal surfaces. Mucommune's current focus is a method to prevent sexually transmitted infections using monoclonal antibodies encapsulated in a polymeric capsule.

**MultiGEN Diagnostics LLC** (*Greensboro*) develops molecular diagnostic products and DNA sequencing-based platform technologies for infectious disease, pharmacogenomics and oncology.

[multigen-diagnostics.com](http://multigen-diagnostics.com)

**MxBiomed LLC** (*Greenville*) is commercializing a patented injectable nanoscaffold to treat diabetic foot ulcers. 💰

**Mycorrhiza Biotech LLC** (*Burlington*) develops products and services to improve plant production. They specialize in fungi and allied organisms for diverse applications in agri-business.

[mycorrhizabiotech.com](http://mycorrhizabiotech.com)

**Mycosynthetix Inc.** (*Hillsborough*) manages a large collection of fungal isolates and discovers novel fungal metabolites for human and animal health and compounds for agricultural applications.

[mycosynthetix.com](http://mycosynthetix.com)

**NanoBiologiX Inc.** (*Chapel Hill*) develops targeted chemotherapeutics to treat cancer using nanotechnology.

[nanobiologix.com](http://nanobiologix.com)

**NanoCor Therapeutics Inc.** (*Chapel Hill*) develops an intracellular genetic protein therapy for the treatment of chronic heart failure.

[nanocorthx.com](http://nanocorthx.com)

**NanoMedica LLC** (*Winston-Salem*) provides ultrasensitive detection reagents and nanotechnology-based drug discovery services and tools to biopharmaceutical companies as well as DNA and RNA sequencing services.

[nanomedica.com](http://nanomedica.com)

**NanoVector Inc.** (*Raleigh*) is commercializing a plant virus nanoparticle to develop a family of targeted-delivery, small-molecule cancer drugs. 💰

[nanovectorinc.com](http://nanovectorinc.com)

**Natland International Corp.** (*Morrisville*) provides contract research synthesis of pharmaceuticals and custom organic chemicals.

[natland.com](http://natland.com)

**Natural Discoveries Inc.** (*High Point*) provides biologically-active natural products from remote areas of the world for analysis, research and manufacturing to the pharmaceutical, agricultural and natural products industries.

[natdiscov.com](http://natdiscov.com)

**Natural Products & Glycotechnology Research Institute Inc.** (*Pittsboro*) develops new methods for the synthesis of oligosaccharides to be used in the development of vaccines or diagnostic tools and also in improved synthesis of ribonucleotides.

**Nature's Pearl Corp.** (*Advance*) manufactures nutraceutical and cosmeceutical products from muscadine grape seeds and skins. Its products are manufactured in a cGMP facility and have been studied in clinical trials for efficacy.

[naturespearlproducts.com](http://naturespearlproducts.com)

**NeuroAnalytics LLC** (*Durham*) provides testing and analysis of tobacco products.

**NeuroNano Pharma Inc.** (*Raleigh*) is developing nanoparticle-based macromolecular medicines which cross the blood brain barrier for treatment of rare and neurodegenerative diseases.

[neuronanopharma.com](http://neuronanopharma.com)

**NeuroPro Therapeutics Inc.** (*Bahama*) is developing a novel, nanoparticle-based imaging technique for the treatment of epilepsy.

**Neuroscience Research Institute of North Carolina** (*Winston-Salem*) is a non-profit corporation that conducts NIH-funded research on brain functions, alcoholism, Parkinson's disease, schizophrenia and pain regulations.

**NeuroTronik Inc.** (*Durham*) develops medical technology for the treatment of acute heart failure syndrome.

**Nexgen Biosciences** (*Raleigh*) is developing next generation anti-infective therapeutics effective against antibiotic-resistant strains of microorganisms.

[nexgen-bio.com](http://nexgen-bio.com)

#### **NIRvana Sciences Inc.**

(*Research Triangle Park*) is commercializing fluorescent dyes for use in medical diagnostics and optical imaging tests. 💰

[nirvanasciences.com](http://nirvanasciences.com)

**Nitta Gelatin NA Inc.** (*Fayetteville and Morrisville*) manufactures food, pharmaceutical and technical gelatin, and is the maker of beMatrix Low Endotoxin Gelatin. beMatrix is used in the fields of regenerative medicine, medical devices and scientific research. Nitta Gelatin's Fayetteville plant produces 3,000 tons of pharmaceutical and food-grade gelatins per year.

[nitta-gelatin.com](http://nitta-gelatin.com)

**North Carolina Clinical Research** (*Raleigh*) conducts phase one through four trials at its outpatient clinical research facility. Study indications include allergy (seasonal and perennial), asthma, COPD, vaccine, migraine and bioequivalent studies.

[nccr.com](http://nccr.com)

#### **North Carolina Microbiology Laboratory**

(*Lincolnton*) offers microbiology testing services for the indoor air quality and wood products industries. Services include fungal identification, bacterial identification and product decay resistance characterization.

[ncmlab.com](http://ncmlab.com)

**Novan Inc.** (*Durham*) develops therapies for dermatological conditions using its nitric oxide-releasing nanoparticle technology.

[novantherapeutics.com](http://novantherapeutics.com)

#### **NovaTarg Inc.** (*Research Triangle Park*)

is discovering and developing new drugs for the treatment of Type 2 diabetes, polycystic kidney disease, ovarian cancer and hepatocellular carcinoma. 💰

[novatarg.org](http://novatarg.org)

#### **Novella Clinical, a Quintiles company**

(*Morrisville and Wilmington*) provides full-service, global clinical research organization (CRO) services focused on oncology, dermatology and medical device and diagnostics companies.

[novellaclinical.com](http://novellaclinical.com)

**Novex Innovations LLC** (*Winston-Salem*) is a contract development and manufacturing organization (CDMO) supporting small and startup life science companies in the development of their products, from conceptual through manufacturing and commercialization.

[novexinnovations.com](http://novexinnovations.com)

#### **Novo Nordisk Pharmaceutical Industries Inc.**

(*Clayton*) manufactures insulin, GLP-1 products and prefilled delivery devices for the treatment of diabetes.

[novonordisk-clayton.com](http://novonordisk-clayton.com)

**Novoclem Therapeutics** (*Morrisville*) uses a nitric oxide technology for the treatment of Cystic Fibrosis and other respiratory diseases.

[novoclem.com](http://novoclem.com)

#### **Novozymes BioAg** (*Durham and Morrisville*)

develops microbial-based biofertility, biocontrol and bioyield enhancer products for agriculture. The Durham site focuses on product research and development. The Morrisville site focuses on fermentation and production technology.

[novozymes.com](http://novozymes.com)

#### **Novozymes North America Inc.** (*Franklinton*)

researches, develops and manufactures enzymes, microorganisms and biopharmaceutical ingredients used in industries including agriculture, baking, biofuels, brewing, detergents, food, feed and textiles. The Franklinton site manufactures enzymes.

[novozymes.com](http://novozymes.com)



Architect's rendering of the \$154 million NCSU plant sciences research complex being built as a result of a \$2 billion state bond referendum approved by NC voters in early 2016.

credit: NCSU

**NQ Oncology Inc. (Chapel Hill)** develops novel combination therapy to rapidly and selectively kill tumor cells in late stage pancreatic cancer. [nqoncology.com](http://nqoncology.com)

**Nu Chemie LLC (Charlotte)** is developing and commercializing nanomaterials for drug delivery and water soluble and traceable bioconjugation reagents. NuChemie also provides custom synthesis services. [nuchemie.com](http://nuchemie.com)

**NuBioPharma LLC (Sanford)** develops and formulates novel liquid medications with child-friendly flavors for debilitating orphan diseases. Therapeutic areas include gout, pulmonary arterial hypertension and thrombocytopenia. [nubiopharma.com](http://nubiopharma.com)

**Nufarm Americas Inc. (Morrisville)** manufactures and markets insecticides, fungicides, plant growth regulators and herbicides. This site serves as Nufarm's primary research and development facility in the United States. [nufarm.com](http://nufarm.com)

**Nutra-Pharma Manufacturing Corp. of N.C. (Lexington)** manufactures vitamins, supplements and other wellness products.

**Nutrigene Sciences LLC (Chapel Hill)** develops genetic tests and nutrition-based, medical foods to treat genetically-caused metabolic disorders. [nutrigenesci.com](http://nutrigenesci.com)



**Nuventra Pharma Sciences Inc.**

(888) 615-5111  
[discover@nuventra.com](mailto:discover@nuventra.com)  
[www.nuventra.com](http://www.nuventra.com)

Founded in 2008, Nuventra is home to the largest collection of clinical pharmacology and pharmacokinetic experts in the industry. Nuventra's consultants work as extensions of clients' R&D groups supporting programs across all phases of development through strategic consulting, data analysis, modeling, regulatory affairs, and clinical operations.

**Oak-Bark Corp. (Riegelwood)** develops and manufactures semi-bulk and bulk chemicals, specializing in organosulfur products. [oak-bark.com](http://oak-bark.com)

**Ocera Therapeutics Inc. (Durham)** is a clinical-stage biopharmaceutical company focused on the development and commercialization of proprietary compounds to treat acute and chronic orphan liver diseases. [ocerainc.com](http://ocerainc.com)

**Ocis Biotechnology Inc. (Wilmington)** develops implantable custom hydrogel medical devices for surgical implantation and injection that produce time-released biologics for tissue regeneration. [ocisbiotech.com](http://ocisbiotech.com)

**OncoTAB Inc. (Charlotte)** develops and commercializes diagnostic blood tests designed to detect breast cancer and develops an immunotherapy for the treatment of pancreatic cancer. [oncotab.com](http://oncotab.com)

**Oncotide Pharmaceuticals Inc. (Research Triangle Park)** discovers and develops immunotherapeutic drugs that directly activate tumor suppressors, the same tumor suppressors activated by checkpoint inhibitor antibodies. Oncotide has also developed a companion diagnostic. [oncotide.com](http://oncotide.com)

**OnSite Remediation LLC (Cary)** develops and uses naturally-occurring microbes, mechanical separators, coalescing units and filtration systems for the removal of contaminants from water and soil. [onsiteremediation.com](http://onsiteremediation.com)

**OpAns LLC (Durham)** provides analytical services to support discovery, preclinical, toxicology and clinical studies. [opans.com](http://opans.com)

**Oriel Therapeutics Inc., a Sandoz company (Durham)** develops respiratory products as generic alternatives to patented drugs for asthma and COPD. It also develops and commercializes pre-metered unit and multi-dose dry powder delivery systems. [us.sandoz.com](http://us.sandoz.com)

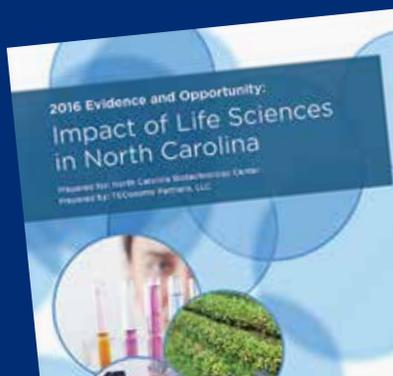
**Osmotica Pharmaceutical Corp. (Wilmington)** specializes in drug-delivery technologies and neurology-based therapies, including a treatment for Parkinson's disease. [osmotica.com](http://osmotica.com)

**Pace Analytical Services Inc. (Asheville)** provides environmental testing services specializing in bioassay, metals, wet chemistry, microbiology and organics. The Asheville laboratory provides inorganic and aquatic toxicity testing services, as well as sampling services for groundwater, wastewater and soil. [pacelabs.com](http://pacelabs.com)

**Panaceutics Inc. (Research Triangle Park)** creates and sells customized nutritional supplement formulas in personalized gel-packs. [panaceutics.com](http://panaceutics.com)

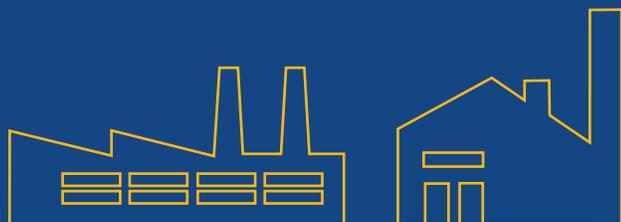
## See the impact of NC's life sciences

Download the Report  
[ncbiotech.org/biotech-by-the-numbers](http://ncbiotech.org/biotech-by-the-numbers)



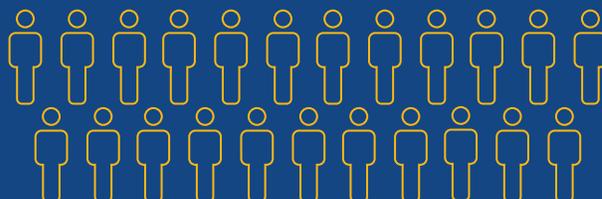
### North Carolina Biotechnology Center

2,000+

life science  
support companies

260,000

employees

**PAREXEL International Corp.** (Durham)

provides drug-development and launch services, including clinical development, integrated advanced technologies, regulatory affairs consulting and commercialization services.

[parexel.com](http://parexel.com)

**Parion Sciences Inc.** (Durham) develops therapies to treat defects of the innate mucosal defense system in respiratory and ophthalmology diseases.

[parion.com](http://parion.com)

**Path BioAnalytics Inc.** (Chapel Hill)

develops rheological assays for testing trans-mucosal drug delivery systems, mucolytic compounds, inhaled medications for respiratory diseases, antimicrobials and treatments for diseases that impact the body's mucosal layers.

[pathbioanalytics.com](http://pathbioanalytics.com)

**Patheon** (Durham and Greenville) provides contract development and commercial manufacturing services for a full array of solid and sterile dosage forms, including small molecule API and biologic drug substances. Patheon's Greenville site manufactures sterile injectables (liquid and freeze-dried) and solid-dose tablets and capsules. It also offers stability storage, stability testing and development for small-molecule APIs and large-molecule biologics.

[patheon.com](http://patheon.com)

**Pathfinder Pharmaceuticals Inc.** (Durham)

specializes in early stage drug discovery, with a focus on cancer therapy.

[pathfinderpharma.com](http://pathfinderpharma.com)

**Patrin Pharma Inc.** (Salisbury) develops pharmaceutical products, primarily oral dosage forms for gastrointestinal, cardiovascular, antiviral, antibacterial and central nervous system indications.

[patrinpharma.com](http://patrinpharma.com)

**Pearl Therapeutics Inc.** (Durham),

a subsidiary of AstraZeneca, develops combination therapies and formulations of inhaled drugs for chronic respiratory diseases such as asthma and COPD.

[pearltherapeutics.com](http://pearltherapeutics.com)

**Peptagen Inc.** (Raleigh) develops nasally-administered cytotoxic T-lymphocyte nanoparticle vaccines for the prevention and treatment of pathogenic diseases and cancer, with a lead program in treatment of HIV/AIDS-related illness.

[peptagen.com](http://peptagen.com)

**Pfizer Inc.** (Sanford) manufactures clinical trial and commercial drug substance materials for conjugate vaccines.

[pfizer.com](http://pfizer.com)

**PharmaChemCore Inc.** (Carrboro)

provides custom design, synthesis and production of novel organic compounds, including pharmaceutical intermediates and active pharmaceutical ingredient (API). The company also offers organic reagents including organo-catalysts.

[PharmaChemCore.com](http://PharmaChemCore.com)

**PharmaDirections Inc.** (Cary) provides virtual drug development services with primary competencies including discovery, formulation, CMC, DMPK, toxicology, regulatory and global project management across all functions.

[pharmadirections.com](http://pharmadirections.com)

**PharmAgra Labs Inc.** (Brevard) conducts contract R&D in organic chemistry for pharma, biotech and other industries. The company also offers cGMP services including the preparation of drug substances for use in clinical trials as well as low-volume API manufacturing.

[pharmagra.com](http://pharmagra.com)

**Pharmgate Animal Health LLC**

(Wilmington) develops and markets medicines for the control of disease in livestock and poultry in North America.

[pharmgateah.com](http://pharmgateah.com)

**Pharm-Olam International**

(Research Triangle Park) provides phase one through four clinical research services to the pharmaceutical, biotech and medical device industries.

[pharm-olam.com](http://pharm-olam.com)

**Phenogen Sciences Inc. (Charlotte)** provides predictive testing and risk assessment tools that help physicians proactively manage patient health.  
[phenogensciences.com](http://phenogensciences.com)

**Physcient Inc. (Durham)** develops new surgical tools designed to decrease tissue damage. Physcient is developing a dissector that differentiates between tissue types for laparoscopic, thoracic, endoscopic, plastic and general surgery.   
[physcient.com](http://physcient.com)

**Physicians Laboratories (Kernersville)** produces and distributes Revival Soy protein products and diet products.  
[soy.com](http://soy.com)

**PhytoChem Pharmaceuticals Inc. (Cary)** is developing a prescription medical food for the treatment of metabolic processes and inflammation involved in breast cancer recurrence.  
[phytochem.com](http://phytochem.com)

**Phytonix Corp. (Black Mountain)** develops and commercializes technologies and manufacturing processes that photosynthetically convert CO<sub>2</sub>, with solar energy and water, into low-cost chemicals and fuels like n-butanol.  
[phytonix.com](http://phytonix.com)

**PhytoPharmacon Inc. (Garner)** offers high throughput screening, lab and pilot scale extract processing, downstream lead processing and purification and full-scale supply of natural products for the food, nutraceutical, cosmetic and pharma research and industries.  
[phytopharmacon.com](http://phytopharmacon.com)

**Piedmont Animal Health LLC (Greensboro)** develops, licenses and markets animal-health therapeutics with a focus on major companion animal categories.   
[piedmontanimalhealth.com](http://piedmontanimalhealth.com)

**Piedmont Biofuels (Pittsboro)** produces and distributes biofuel, researches enzymatic processes for more efficient feedstock-to-fuel conversion, provides laboratory testing to other biodiesel producers and offers consulting services to the industry.  
[biofuels.coop](http://biofuels.coop)

**Pine Laboratories LLC (Durham)** provides analytical testing and development services for pharmaceutical, biopharmaceutical, medical devices, cosmetic, food and chemical industries. Pine Labs is a cGMP compliant lab specializing in ion chromatography.  
[pinelaboratories.com](http://pinelaboratories.com)

**Pique Therapeutics Inc. (Durham)** develops therapeutic vaccines for the treatment of cancer.  
[piquetherapeutics.com](http://piquetherapeutics.com)

**Pisgah Labs Inc. (Pisgah Forest)** manufactures active pharmaceutical ingredients on a contract basis. Pisgah Labs' cGMP facility includes an aseptic manufacturing suite.  
[pisgahlabs.com](http://pisgahlabs.com)

**Plakous Therapeutics LLC (Winston-Salem)** develops therapeutics for degenerative diseases and wound healing applications from post-delivery placental tissue.  
[plakoustherapeutics.com](http://plakoustherapeutics.com)

**Plant Health Care Inc. (Raleigh)** provides novel biological products and technologies to promote plant health and increase crop yields.  
[planthealthcare.com](http://planthealthcare.com)

**Plant Impact Inc. (Morrisville)** researches and develops crop enhancement products, including foliar sprays and seed coatings. The RTP office directs research and is the company's North American headquarters for sales, marketing and technical support.  
[plantimpact.com](http://plantimpact.com)

**Plureon Corp. (Winston-Salem)** develops a technology platform based on pluripotent stem cells extracted from amniotic fluid and placenta. These cells may be used in regenerative medicine and other therapies.  
[plureon.com](http://plureon.com)



NCBiotech organized the North Carolina pavilion at the 2016 BIO International Convention to represent the breadth of the state's life science capabilities. BIO is an annual venue for corporate recruitment, deal-making and networking.

**Polarean Inc. (Research Triangle Park)** designs and manufactures equipment for production of hyperpolarized xenon or helium gas for use in MRI. Investigational uses include identifying early diagnoses of respiratory diseases as well as monitoring progression and therapeutic response.  [polarean.com](http://polarean.com)

**Polyzen Inc. (Apex)** is a contract manufacturer that designs, develops, and manufactures polymer-based medical devices. Polyzen has polymer processing capabilities for prototyping and volume production. [polyzen.com](http://polyzen.com)

**Powered Research LLC (Research Triangle Park)** provides contract research services to life sciences companies using both established and novel nonclinical models. [poweredresearch.com](http://poweredresearch.com)

**PPD (Wilmington and Morrisville)**, a global contract research organization, provides comprehensive, integrated drug development, laboratory and lifecycle management services to pharmaceutical, biotechnology, medical device, academic and government organizations. [ppdi.com](http://ppdi.com)

**PRA Health Sciences (Raleigh)** provides clinical research and trial services for all phases of clinical development. [p्राhs.com](http://p्राhs.com)

**Practichem LLC (Morrisville)** develops biotech tools for research, including chromatography instruments that can be controlled remotely, and associated consumables, including protein chromatography, flash and preparative chromatography and sample loading technology. [practichem.com](http://practichem.com)

**Precise Bio Inc. (Winston-Salem)** grows live and vital complicated organs for transplant using 3D bio-printing. [precise-bio.com](http://precise-bio.com)

**Precision BioSciences Inc. (Durham)** develops technology to produce custom, genome-editing enzymes for human health and biological research. The technology is called Directed Nuclease Editor. [precisionbiosciences.com](http://precisionbiosciences.com)



**Metrics Contract Services**, a subsidiary of Australia's Mayne Pharma, is just completing a \$65 million expansion of the contract development and manufacturing campus it established in Greenville in 2012, creating 110 new jobs.   
 photo: Metrics Contract Services

**Precision Diagnostics Inc. (Cary)** manufactures and distributes PrecisiBand products, a biocompatible material that degrades in situ and releases drugs or compounds while protecting wounds. [precisiondiagnose.com](http://precisiondiagnose.com)

**Precision PlantSciences Inc. (Durham)** develops Precision Biosciences' technology, called Directed Nuclease Editor, to site-specifically insert or remove traits at a user-defined location in the genome of row crops, biofuel feedstocks and other plants. [precisionbiosciences.com](http://precisionbiosciences.com)

**Premex Innovation Labs (Durham)** develops, manufactures and markets nutritional ingredients for animals. This location conducts research on feed additives for animal nutrition. [premix.co/en](http://premix.co/en)

**Premier Research (Research Triangle Park)** provides clinical development services for biotech and specialty pharma companies, with a focus on analgesia, CNS, medical device, oncology, pediatric and rare disease research. [premier-research.com](http://premier-research.com)

**Premitec Inc. (Raleigh)** is a biomedical research and development company that focuses on development of flexible neural interfaces, implantable biosensors and packaging solutions for these devices. [premitec.com](http://premitec.com)

**Procter & Gamble (Greensboro)** manufactures Vicks and other over-the-counter products at this facility. [pg.com](http://pg.com)

**Promethera Biosciences LLC (Durham)** develops, produces and markets cell therapeutic products, including human liver cells, to treat liver diseases. [promethera.com](http://promethera.com)

**Pulmonix LLC (Greensboro)** conducts phase two to phase four clinical trials in pulmonary, asthma, sleep and critical care medicine. [pulmonixresearch.com](http://pulmonixresearch.com)

**Puratec LLC (Raleigh)** is developing an antimicrobial Foley catheter.

# \$86B

economic activity



# \$2.2 BILLION

in state and local revenues



### **Purdue Pharma Manufacturing LP**

*(Durham and Wilson)* develops pharmaceuticals to treat pain. The Durham location is an oral solid dosage manufacturing plant. The Wilson plant manufactures, packages and distributes oral solid-dose tablets and is the company's distribution center for prescription products.

[purduepharma.com](http://purduepharma.com)

**Q<sup>2</sup> Solutions** *(Morrisville)* offers clinical trials lab services to biopharma, device and diagnostics customers. Services include central laboratories, bioanalytical, ADME, genomics, biomarkers and companion diagnostics to support drug discovery and precision medicine.

[q2labsolutions.com](http://q2labsolutions.com)

**QOL Medical LLC** *(Raleigh)* commercializes existing and complementary new orphan products for metabolic disease and pediatric gastroenterology.

[qolmed.com](http://qolmed.com)

### **QPS Hepatic Biosciences**

*(Research Triangle Park)* specializes in hepatocyte research, drug metabolism, drug transporter services and in vitro drug-drug interactions.

[qps.com](http://qps.com)

**Qualiber Inc.** *(Chapel Hill)* develops nanotechnologies to solve drug delivery challenges for nucleic acid-based therapeutics, such as DNA and mRNA, with a focus on cancer, hepatitis and liver diseases. 💰

[qualiberinc.com](http://qualiberinc.com)

**Qualicaps Inc.** *(Whitsett)* manufactures empty two-piece capsules (gelatin and hypromellose) and encapsulation equipment under cGMP regulations for use by pharmaceutical, OTC and dietary-supplement manufacturers.

[qualicaps.com](http://qualicaps.com)

### **Quality Chemical Laboratories**

*(Wilmington)* offers contract analytical and microbiological testing services to pharmaceutical companies, including raw-material and finished-product testing, stability testing, method development, validation and custom synthesis.

[qualitychemlabs.com](http://qualitychemlabs.com)

### **Qualyst Transporter Solutions LLC**

*(Durham)* develops and commercializes cell-based drug toxicity-testing products used in pharmaceutical development, based on its proprietary hepatocyte technologies. 💰

[qualyst.com](http://qualyst.com)

**QuarTek Corp.** *(Asheboro)* develops nanotechnology processes with applications in antimicrobials, advanced textiles, nanosensors, diagnostics and biofuels. The company also provides accelerator services for startup nanotechnology companies.

[quartekcorp.com](http://quartekcorp.com)

**QuatroBio LLC** *(Morrisville)* provides oversight and strategic direction to several closely held drug development companies.

**QuintilesIMS** *(Durham)* provides technology-enabled healthcare services to help biotech, medical device and pharmaceutical companies develop new therapies, identify unmet treatment needs and understand the safety, effectiveness and value of pharmaceutical products.

[quintilesims.com](http://quintilesims.com)

### **Radiant Neurosciences LLC**

*(Durham)* develops medicines to treat neurodevelopmental disorders in children.

### **Recipharm Laboratories Inc.**

*(Morrisville)* provides contract inhalation and transdermal product development. Services include formulation development, analytical and stability testing, scale-up and tech transfer, as well as cGMP manufacturing services for clinical trial material.

[recipharm.com/locations/research-triangle-park](http://recipharm.com/locations/research-triangle-park)

**Redbud Labs** *(Chapel Hill)* develops MEMS and microfluidics technologies based on a patented ASAP platform, which has applications for transfusion diagnostics, fertility testing, small-volume assays and specimen preparation. 💰

[redbudlabs.com](http://redbudlabs.com)

### **Regenerative Cell Solutions LLC**

*(Winston-Salem)* develops tissue and organ regeneration applications for veterinary medicine, diagnostics and pharmaceutical research and development.

**Relion Manufacturing Inc. (Asheville)** provides contract packaging and manufacturing services, including validation and regulatory consulting for medical device, pharmaceutical and cosmetic manufacturers.  
[avadimtechnologies.com/relion-medical/](http://avadimtechnologies.com/relion-medical/)

**Renovion Inc. (Durham)** develops therapies for lung transplant patients and chronic inflammatory airway diseases including cystic fibrosis, asthma and COPD.  
[renovion.com](http://renovion.com)

**Repreve Renewables LLC (Greensboro)** develops and markets giant miscanthus as a high-yielding biomass crop.  
[repreverenewables.com](http://repreverenewables.com)

**Research Triangle Park Laboratories Inc. (Raleigh)** provides contract analytical laboratory services for the environmental, pharmaceutical, biotechnology, dietary supplements and manufacturing industries.  
[rtp-labs.com](http://rtp-labs.com)

**Reveris Therapeutics LLC (Chapel Hill)** develops novel therapeutics for triple negative breast cancer (TNBC).  
[reveris.com](http://reveris.com)

**Revivo Therapeutics Inc. (Durham)** develops treatments for Alzheimer's disease that targets both early symptoms and the progression of the disease.  
[revivotherapeutics.com](http://revivotherapeutics.com)

**RF Wastewater (Raleigh)** focuses on biological wastewater treatment, using lignocellulosic materials as biofilm media for activated sludge system retrofits and upgrades.  
[rfwastewater.com](http://rfwastewater.com)

**Rho (Chapel Hill)** provides clinical development and contract research services to the biotechnology, pharmaceutical and medical device industries.  
[rhoworld.com](http://rhoworld.com)

**Ribometrix Inc. (Greenville)** is a platform therapeutics company discovering small molecule drugs that target functional RNA structures to create new avenues to treat human disease. 💰  
[ribometrix.com](http://ribometrix.com)

**RiboWiz Scientific Inc. (Raleigh)** offers customized services and web-based software licensing to predict and maximize recombinant protein production, such as biologics, vaccines and enzymes, for pharma and biotech companies using the company's proprietary software platform.  
[ribowiz.com](http://ribowiz.com)

**Rockwell Automation Life Sciences (Cary)** provides automation control, process optimization and execution systems for manufacturers. Rockwell's Cary location is the headquarters for the Americas' life sciences division.  
[rockwellautomation.com/global/industries/life-sciences/overview.page](http://rockwellautomation.com/global/industries/life-sciences/overview.page)

**Roivant Sciences Inc. (Durham)** acquires drug candidates or partners with the biopharma industry to complete the clinical development of shelved product candidates. Therapeutic areas include neurology, dermatology, hepatology, oncology, endocrinology and rare disease.  
[roivant.com](http://roivant.com)

**RTI Health Solutions (Research Triangle Park)** is a non-profit organization that provides biopharmaceutical companies clinical research services and research and consulting in health economics, outcomes research, market access, epidemiology and drug safety.  
[rtihs.org](http://rtihs.org)

**RTI International (Research Triangle Park)** is an independent, nonprofit institute that provides research and technical services to governments and businesses, including drug discovery and development, analytical chemistry and medical device and diagnostics research.  
[rti.org](http://rti.org)

**RTI Surgical Inc. (Greenville and Raleigh)** develops and provides surgical implants, including biologic, metal and synthetic implants.  
[rtix.com/en\\_us/](http://rtix.com/en_us/)

**SabioAdvantec LLC (Raleigh)** offers contract R&D services from concept through prototype development for medical robotics, biomedical 3D printing and process automation.  
[sabioadvantec.com](http://sabioadvantec.com)



**Medical Murray** continues to grow since moving its Southeast division into a larger building in 2015 near the Charlotte Douglas International Airport. It designs, develops and manufactures highly specialized catheters and intricate components used for a wide variety of minimally invasive procedures.

photo: Medical Murray

## Accolades for North Carolina: 2016 & 2017

North Carolina  
ranked  
**#2**  
as best state  
for business.

*Forbes.com*

North Carolina  
ranked  
**5th**  
in CNBC's annual  
"Top States for  
Business" report.

*CNBC, "Top States for Business," 2016*

Durham **#4**  
in venture capital  
investment per capita  
in global cities.

*Martin Prosperity Institute,  
"Rise of the Global City," 2016*

Raleigh-Durham  
ranks  
**#8**  
in U.S. Biopharma  
Clusters list.

*GEN, "Top 10 U.S.  
Biopharma Clusters," 2016*

Triangle ranks among  
**top metros**  
for best VC returns.

*Pitchbook, "Which U.S. cities generate  
the best VC returns?" 2016*

Raleigh-Durham ranked  
**#3**  
in 2016 Life Sciences  
Outlook report.

*Jones Lang Lasalle,  
"Life Sciences Outlook," 2016*

North Carolina ranked  
**3rd best**  
in Chief Executive  
Magazine's "Best and  
Worst States for  
Business."

*Chief Executive Magazine,  
"Best & Worst States for Business,"  
2017*

North Carolina  
won  
**1st place**  
in Site Selection's  
2017 Prosperity Cup  
competitiveness ranking.

*Site Selection Magazine,  
"Prosperity Cup," 2017*

**SafeRay Spine LLC (Durham)** develops medical imaging devices that may help to reduce radiation exposure and improve the safety of fluoroscopy procedures.  [lessray.com](http://lessray.com)

**Salix Pharmaceuticals Inc. (Raleigh)** develops and markets prescription pharmaceutical products for the treatment of gastrointestinal diseases. [salix.com](http://salix.com)

**Salzburg Therapeutics Inc. (Yadkinville)** is developing systems that deliver activated forms of anticancer drugs, nucleic acid drugs and nanoparticles directly to cancer cells. [sztipharm.com](http://sztipharm.com)

**Sandoz Inc. (Wilson)** manufactures oral-dosage generic pharmaceuticals. [us.sandoz.com](http://us.sandoz.com)

**Sanesco International Inc. (Asheville)** develops clinical tools for healthcare providers, such as neuroendocrine analytical testing, nutritional support formulas and patient-centered clinical review. The NeuroLab division conducts research and development of in vitro diagnostic tools. [sanescohealth.com](http://sanescohealth.com)

**SciEntl LLC (Greensboro)** develops computation technologies to screen chemicals and target databases in order to identify and optimize leads for preclinical candidates. SciEntl's technologies can also be used to discover small-molecule enzyme activators. [SciEntl.com](http://SciEntl.com)

**Scientific Analytical Institute Inc. (Greensboro)** conducts environmental, indoor air quality, forensic and materials testing. [sailab.com](http://sailab.com)

**SciKon Innovation Inc. (Research Triangle Park)** creates and distributes life science products that replicate the performance of human organ systems using microfluidic devices. SciKon's products simulate pharmacokinetics in vivo in order to predict human responses to toxicants and drugs.  [scikoninnovation.com](http://scikoninnovation.com)

**Scioderm Inc., an Amicus Therapeutics Company (Durham)** develops drugs to treat skin diseases with high unmet need. [sderm.com](http://sderm.com)

**Sciteck Inc. (Fletcher)** provides forensic drug testing services and diagnostic products. Sciteck develops, manufactures and sells products for biotechnology, urinalysis, clinical chemistry, toxicology, pharmaceuticals, treatment and safety applications.

[sciteck.org](http://sciteck.org)

**ScitoVation LLC (Research Triangle Park)** supports and advances research on the effects of chemical compounds on human health. ScitoVation works with clients to develop safer pharmaceuticals, food ingredients, agricultural chemicals, commodity chemicals and consumer products.

[scitovation.com](http://scitovation.com)

**Seachaid Pharmaceuticals LLC (Mebane)** is a clinical-stage company that discovers and develops human therapeutics.

[seachaid.com](http://seachaid.com)

**SeaTox Research Inc. (Wilmington)** develops bioassays for the detection of marine toxins and conducts pharmaceutical development through bioprospecting.

[seatoxresearch.com](http://seatoxresearch.com)

**Select ImmunoGenomics Inc. (Apex)** provides data analysis, predictive modeling and reporting in support of genomic studies, biomarker development and biomarker validation services.

[selectimmunogenomics.com](http://selectimmunogenomics.com)

**Selexys Pharmaceuticals Corp. (Morrisville)** develops therapeutics for the treatment of inflammation, thrombosis and metastasis across a broad range of severe diseases.

[selexys.com](http://selexys.com)

**SenGenix Inc. (Durham)** develops point-of-care blood diagnostic tests using fluorescently-responsive sensors.

[sengenix.com](http://sengenix.com)

**Sentiens LLC (Charlotte)** develops nutraceutical products targeting addictive behavior.

[sentiens.us](http://sentiens.us)

**Sentinel Biomedical Inc. (Raleigh)** is developing molecular diagnostics for the detection of canine cancers.

[sentinelbiomedical.com](http://sentinelbiomedical.com)



Successful life science entrepreneurs share a panel discussion at a monthly meeting of the NCBiotech Jobs Network. The events are for life science professionals interested in networking and exploring job opportunities in the state.

**SePRO Research & Technology Campus (Whitakers)** acquires, develops, manufactures and markets products for aquatics and horticulture. SePRO's research and technology campus in Whitakers is the primary research and development site for the company.

[sepro.com](http://sepro.com)

**Seqirus, a CSL Company (Holly Springs)** produces seasonal flu cell culture vaccine, pre-pandemic and pandemic vaccines.

[seqirus.com](http://seqirus.com)

**Serum Source International Inc. (Charlotte)** supplies animal serum for life science cell culture research, contract research laboratory use, bioprocessing and product development.

[serumsourceintl.com](http://serumsourceintl.com)

**Shoaf Scientific Consultants Inc. (Lexington)** provides research and development services in plant redox bioenergetics, antimicrobial surface technologies and molecular photochemical studies in singlet oxygen and superoxide free radical anion as applied to aging.

[shoafbiochem.com](http://shoafbiochem.com)

**Shure Foods Inc. (Greenville)** produces cold-structured crab by treating the uncooked crab meat with a protein binding agent.

[shurefoods.com](http://shurefoods.com)

**SightLife Surgical (Winston-Salem)** provides corneal endothelial cells for transplantation, as well as related supplies and devices. It is an FDA-registered human tissue establishment.

[sightlifesurgical.com](http://sightlifesurgical.com)

**SiNON Therapeutics (Research Triangle Park)** is developing technology to treat neurological diseases by increasing the ability of drugs to cross the Blood Brain Barrier (BBB).

[sinontp.com](http://sinontp.com)

**SipcamAdvan (Durham)** develops and manufactures herbicides, pesticides, fungicides and biocides.

[sipcamadvan.com](http://sipcamadvan.com)

**SIRGA Advanced Biopharma Inc. (Research Triangle Park)** discovers and develops small-molecule drugs to treat HIV and other drug-resistant infectious diseases. 💰

[digitalharmonydesign.com/SigraAB/](http://digitalharmonydesign.com/SigraAB/)

**Smart Perfusion LLC (Denver)** is developing an organ perfusion device that extends the time an organ is viable ex vivo and that monitors metrics that validate organ viability.

[smartperfusion.com](http://smartperfusion.com)



North Carolina's array of top research universities and community colleges helps maintain the state's life science leadership with one of the most educated workforces in the nation. It led to Site Selection Magazine's prestigious Prosperity Cup for 2017, topping all other states.

photo: Duke

**SmartFlow Technologies Inc. (Apex)** provides TFF filtration, separation and purification for the biotechnology, biopharmaceutical processing, biofuels, animal healthcare, dairy processing, enzyme manufacturing, food processing and wastewater industries.

[smartflow-tech.com](http://smartflow-tech.com)

**SmartGene Inc. (Raleigh)** provides web-based software solutions for the management, analysis and interpretation of genetic sequences to identify and characterize bacteria, fungi and viruses. Customers include diagnostic labs, medical centers and sterile manufacturers.

[smartgene.com](http://smartgene.com)

**SMG Pharmaceuticals LLC (Raleigh)** commercializes and develops products from phase two to market, with a current focus on a topical antimicrobial that treats MRSA, gram positive and negative bacteria and fungal infections.

[smgpharmaceuticals.com](http://smgpharmaceuticals.com)

**Smithers Viscient LLC (Snow Camp)** provides environmental testing services for the pharmaceutical, veterinary, agriculture, chemical and personal-care industries. The company's lab in Snow Camp conducts avian and wildlife toxicology testing.

[smithersviscient.com](http://smithersviscient.com)

**SoBran BioScience (Browns Summit)** conducts pre-clinical small and large animal contract research for academic, corporate and government clients. SoBran is GLP compliant, AAALAC accredited, OLAW assured and ISO 9001:2008 certified.

[sobranbioscience.com](http://sobranbioscience.com)

**Solutex NA LLC (Winston-Salem)** makes highly-refined omega-3 APIs for the pharmaceutical and nutritional markets. The Winston-Salem location is a sales and development office for the company.

[solutex.es/en/](http://solutex.es/en/)

**SonoVol LLC (Durham)** is developing preclinical imaging technology that can be applied to the animal models researchers use to evaluate the efficacy and toxicity of new drugs before they enter clinical trials.

[sonovol.com](http://sonovol.com)

**Southcot Inc. (Research Triangle Park)** prepares biological agents for the detection of tissue hypoxia at the cell level in normal and malignant tissues.

[hypoxyprobe.com](http://hypoxyprobe.com)

**Southeastern Laboratories Inc. (Goldsboro)** provides research and laboratory support to water and wastewater-treatment companies. SEL's analytical services include microbiological and chemical testing.

[selaboratories.com](http://selaboratories.com)

**Southern Research - Clean Technology Development (Durham)** develops and evaluates innovative technology solutions to reduce energy consumption and environmental impacts in various sectors from power generation to manufacturing to transportation.

[southernresearch.org](http://southernresearch.org)

**SoyMeds Inc. (Charlotte)** is developing a seed-based expression platform that enables production of protein-based targets that can be used to diagnose and treat disease and address other unmet needs in the healthcare industry.

[soymeds.com](http://soymeds.com)

**Spin-Darc LLC (Raleigh)** develops and markets a portable device for automated, real-time biodetection of microbial or chemical contaminants with potential applications in healthcare, veterinary medicine, the food industry, environmental monitoring and biodefense.

[spindarc.com](http://spindarc.com)

**Spirovention Inc. (Chapel Hill)** is a specialty CRO with a focus on the development of breakthrough drugs in respiratory medicine.

[spirovention.com](http://spirovention.com)

**Sprout Pharmaceuticals Inc. (Raleigh)**, a division of Valeant Pharmaceuticals, develops and markets a compound to treat hypoactive sexual desire disorder.

[addyi.com](http://addyi.com)

**Spyryx Biosciences Inc. (Durham)** is developing disease-modifying therapies for obstructive lung disease based on the natural fluid control mechanism in the lung. The company's initial focus is on cystic fibrosis. 💰

[spyryxbio.com](http://spyryxbio.com)

**Stallergenes Greer (Lenoir)** develops and distributes animal and human allergy immunotherapy products and services.

[greerlabs.com](http://greerlabs.com)

**Sterigenics (Charlotte and Haw River)** provides ethylene oxide sterilization and gamma radiation sterilization for medical and pharmaceutical products.

[sterigenics.com](http://sterigenics.com)

**Stiefel, a GSK company (Research Triangle Park)** develops prescription and OTC skin-care therapies. The company's primary research and development facility is in RTP.

[stiefel.com](http://stiefel.com)

**StrideBio LLC (Durham)** develops engineered viral vectors for gene therapy. StrideBio's technology engine utilizes structure-inspired design to engineer AAV vectors which can escape pre-existing neutralizing antibodies (NAbs).

**Structure Medical Inc. (Mooreville)**

is a contract manufacturer of orthopedic medical devices, including implantable orthopedic fracture fixation and spinal instrumentation products.

[structuremedical.com](http://structuremedical.com)

**Sun Dance Genetics LLC (Durham)**

has developed an improved and sustainable corn germplasm by transferring genes from a wild relative (gamagrass) into corn. They also developed high sugar gamagrass for efficient bioenergy conversion.

**Suncare Research Laboratories LLC**

(Winston-Salem) provides services to sunscreen and dermatological product manufacturers, including evaluation of sunscreen SPF and UVA protection.

[suncarelab.com](http://suncarelab.com)

**Surgilūm LLC (Wilmington)**

designs, manufactures and markets medical instruments for use in cataract and refractive surgery. 💰

[surgilum.com](http://surgilum.com)

**Syberix Inc. (Durham)** researches enzymes produced by the microbiome to develop drugs that would improve the efficacy of a range of therapeutics.

[syberix.com](http://syberix.com)

**Symmetry Biosciences Inc. (Research Triangle Park)**

provides contract research, specialized chemistry services and bioanalytical services to the biotech, pharmaceutical, medical device, agrochemical and fine chemical industries.

[symmetrybiosciences.com](http://symmetrybiosciences.com)

**Symune Therapeutics LLC (Durham)**

develops immune targeted therapies for chronic respiratory diseases. 💰

[symune.com](http://symune.com)

**SynapTech Labs (Morehead City)**

is developing a screening assay for neurologic drugs.

**Synchrony Labs LLC (Durham)**

is an AAALAC-accredited large-animal, preclinical contract research organization. It provides preclinical testing services, specializing in models for safety, toxicology and efficacy studies.

[synchronylabs.com](http://synchronylabs.com)

**Synereca Pharmaceuticals Inc.**

(Chapel Hill) develops orally active drugs that restore or increase the effectiveness of existing antibiotics. 💰

[synereca.com](http://synereca.com)

**Syngenta Crop Protection LLC (Greensboro and Research Triangle Park)**

works to increase plant yield by developing products for insect and weed control and drought tolerance. The Greensboro location is the company's US headquarters and performs product development, product safety and administrative functions. The Innovation Center in Research Triangle Park is the company's seeds center of excellence and includes the Advanced Crop Lab.

[syngenta-us.com](http://syngenta-us.com)

**SynShark LLC (Leland)**

is developing a method for extracting squalene from tobacco. Squalene is a specialty chemical typically derived from shark livers used for vaccines and cosmetics. 💰

[synshark.com](http://synshark.com)

**SyneractHCR Inc. (Morrisville)**

provides customized, full-service phase one through four clinical development services internationally across multiple therapeutic areas.

[syneracthcr.com](http://syneracthcr.com)

**Synthon Pharmaceuticals Inc. (Durham)**

develops and manufactures generics, as well as specialty pharmaceuticals and biosimilars in key therapeutic areas of oncology and multiple sclerosis. The Durham location is a regulatory office.

[synthon.com](http://synthon.com)

**Synthonix Inc. (Wake Forest)**

designs, manufactures and markets molecules to aid in drug discovery.

[synthonix.com](http://synthonix.com)

**T3D Therapeutics Inc.**

(Research Triangle Park) is developing a disease-modifying drug therapy for Alzheimer's disease that may improve multiple disease defects. The drug also demonstrates potential as a therapy for nonalcoholic steatohepatitis (NASH). 💰

[t3dtherapeutics.com](http://t3dtherapeutics.com)

**TAB Clinical Trials (Cary)**

provides global clinical trial support from pre-IND stage of development to postmarket approval for drugs and devices. TAB Clinical also provides drug safety and pharmacovigilance services in the US and EU through a QPPV partner.

[tabclinical.com](http://tabclinical.com)



NCBiotech hosts numerous events each year for ag biotech professionals, so virtually any ag biotech company, researcher, investor or holder of intellectual property can find unique opportunities for developing ideas, products and potential.



The High Point University campus is undergoing major growth, thanks to the \$120 million Congdon School of Health Sciences and Fred Wilson School of Pharmacy facility. The state-of-the-art schools create a cornerstone for medical innovation at HPU.

photo: High Point University

**TARGET PharmaSolutions Inc. (Chapel Hill)**

is a clinical data information company that assists in phase four clinical trials in the analysis of comparative effectiveness and safety of therapeutic agents. 💰

[targetpharmasolutions.com](http://targetpharmasolutions.com)

**TearScience Inc. (Morrisville)** develops technologies to improve identification, diagnosis, and treatment of Meibomian Gland Dysfunction.

[TearScience.com](http://TearScience.com)

**Technology Crops International**

(Winston-Salem) designs, evaluates and develops specialty plant-derived oils for food, chemical, dietary supplement and personal care uses. The company manages the supply chain from "soil to oil," providing traceability, consistent demand and quality control.

[techcrops.com](http://techcrops.com)

**Teleflex Medical (Asheboro and Morrisville)**

designs, manufactures and distributes medical devices, surgical instruments and disposable medical products. Its facility in Asheboro manufactures disposable catheters and related products for critical and cardiac care.

[teleflex.com](http://teleflex.com)

**Tem Systems Inc. (Research Triangle Park)**

distributes the ROTEM delta blood hemostasis analyzer, developed by its parent company TEM International.

[rotem-usa.com](http://rotem-usa.com)

**Tenax Therapeutics Inc. (Morrisville)**

develops and commercializes pharmaceutical products for the critical care market.

[tenaxthera.com](http://tenaxthera.com)

**TEO Systems Inc. (Greenville)** develops and sells optical and electronic devices and systems, including a label-free flow cytometer instrument for rapid analysis of biological cells and small particles.

**Tergus Pharma LLC (Durham)** provides topical and semi-solid development, formulation, analysis and testing services, with expertise in IVRT method development. The company has cGMP manufacturing, phase one through four clinical supplies and logistics capabilities.

[terguspharma.com](http://terguspharma.com)

**TerraStar Energy (Lumberton)** provides turn-key systems to reduce waste and convert it to biogas, electricity, liquid fuels and solid and liquid fertilizers. Systems include anaerobic digestion, gasification, pyrolysis and boilers.

[terrastarenergy.com](http://terrastarenergy.com)

**Tersus Environmental LLC (Wake Forest)** develops and markets technologies for the remediation of soil and groundwater. Services include aerobic bioremediation, bioaugmentation and cometabolic bioremediation.

[tersusenv.com](http://tersusenv.com)

**Textile-Based Delivery Inc. (Conover)** develops and manufactures fabrics that integrate controlled release matrices, offering topical and transdermal dosing of active ingredients.

[texdel.com](http://texdel.com)

**TheraBionic LLC (Winston-Salem)**

is developing treatment approaches for cancer based on the use of tumor-specific modulation frequencies, with an initial focus in hepatocellular carcinoma.

[therabionic.com](http://therabionic.com)

**TheraLogics Inc. (Hillsborough)** discovers and develops treatments for inflammatory diseases using human transcription factor NF-kB technologies.

**Tidewater Agronomics Inc. (Belvidere)**

conducts USDA-regulated biotech crop trials; provides GLP services in EPA Region 2; facilitates pollinator studies; conducts efficacy trials on chemistry, fertilizers and crop cultivars; and provides crop consulting services.

[tidewaterag.com](http://tidewaterag.com)

**TIRF Labs (Cary)** develops, manufactures and markets a broad range of products based on total internal reflection fluorescence (TIRF), including add-on TIRF accessories for microscopy and spectroscopy, TIRF biosensors and fluorescence illuminators.

[tirf-labs.com](http://tirf-labs.com)

**Tisucor LLC (Durham)** develops and sells human allograft products, including demineralized cortical bone and amnion membranes.

[tisucor.com](http://tisucor.com)

**Toxicology Services Inc. (Chapel Hill)** works with small and mid-sized pharmaceutical companies and CROs to plan, conduct and summarize toxicology studies, including PK/ADME studies.

[toxicologyservices.net](http://toxicologyservices.net)

**Trana Discovery Inc. (Cary)** provides a proprietary anti-infective discovery technology platform that enables its partners to discover new treatments of bacterial, viral and fungal infectious diseases in crops, animals and humans. 💰

[tranadiscovery.com](http://tranadiscovery.com)

**TransEnterix Inc. (Morrisville)** designs and develops flexible instruments and robotics for use in minimally-invasive surgery.

[transenterix.com](http://transenterix.com)

**TransViragen Inc. (Chapel Hill)** provides in vivo discovery research services, including the generation and analysis of genetically modified rodents and cell lines.

[transviragen.com](http://transviragen.com)

**Treyco Environmental Solutions** (*Wilson*) created and manufactures a patented enzymatic degreaser product called TPP1.

[treyco.net](http://treyco.net)

**Triangle Biofuels Industries Inc.** (*Wilson*) makes biodiesel from vegetable oils obtained from domestic sources. Target markets are agricultural, marine, government and commercial customers.

[trianglebiofuels.com](http://trianglebiofuels.com)

**Triangle BioSystems International** (*Durham*) develops, produces, markets and supports biomedical signal processing products that advance the research and performance capabilities of its customers in the neurophysiology and ultrasound marketplace.

[trianglebiosystems.com](http://trianglebiosystems.com)

**Triangle Compounding Pharmacy** (*Cary*) is a FDA Registered 503B Outsourcing Facility (cGMP) and PCAB-accredited pharmacy, specializing in compounding sterile and non-sterile preparations of study medications, in varied formulations, for clinical trials.

[trianglecompounding.com](http://trianglecompounding.com)

**Triangle Research Labs LLC** (*Research Triangle Park*) specializes in hepatocyte production for use in research focused on drug metabolism, drug-drug interactions, drug transporters and hepatotoxicity.

[triangleresearchlabs.net](http://triangleresearchlabs.net)

**TriboFilm Research Inc.** (*Raleigh*) develops low-friction, thin-film coating and lubrication platforms for medical devices and for the aerospace and marine industries.

[tribofilmresearch.com](http://tribofilmresearch.com)

**Tryton Medical Inc.** (*Durham*) develops stent systems for the treatment of coronary artery bifurcation lesions.

[trytonmedical.com](http://trytonmedical.com)

**Twin City Bio LLC** (*Winston-Salem*) manufactures cell therapy products that use a patient's own cells to restore damaged kidney tissues by engrafting into, repairing or replacing damaged tissues or organ.

**TyraTech Inc.** (*Morrisville*) develops and commercializes insect and parasite protection products for human and animal markets without the use of synthetic pesticides.

[tyratech.com](http://tyratech.com)

**Tyton NC Biofuels LLC** (*Raeford*) is a biorefinery that uses corn and energy tobacco as feedstock for ethanol production.

[tytonbiofuels.com](http://tytonbiofuels.com)

**UCB Biosciences Inc.** (*Raleigh*) develops therapeutics for the treatment of severe, life-threatening neurological and inflammatory diseases, including epilepsy, Parkinson's disease, rheumatoid arthritis, Crohn's disease, psoriatic arthritis, lupus and osteoporosis.

[ucb.com](http://ucb.com)

**United Therapeutics Corp.** (*Research Triangle Park*) develops and commercializes products to treat cardiopulmonary diseases, infectious diseases and cancer.

[unither.com](http://unither.com)

**US Botanical Safety Laboratory** (*Candler*) provides natural products formulation and botanical ingredient analytical testing. USBSL is an FDA-registered laboratory operated by Bent Creek Institute and affiliated with The NC Arboretum Germplasm Repository.

[botanical-safety.com](http://botanical-safety.com)

**UVision360 Inc.** (*Research Triangle Park*) develops office-based hysteroscopy systems. 

[uvision360.com](http://uvision360.com)

**Vascular BioSciences Inc.** (*Durham*) is a biopharmaceutical company developing solutions for difficult-to-treat cardiovascular and inflammatory diseases.

[vascularbiosciences.com](http://vascularbiosciences.com)

**Vascular Pharmaceuticals Inc.** (*Research Triangle Park*) develops and commercializes therapeutic products to treat secondary complications of diabetes.

[vascularpharma.com](http://vascularpharma.com)

**Velo Bio LLC** (*Morrisville*) is developing an orphan drug for the treatment of severe preeclampsia in pregnant women.

**Velosal Medical Inc.** (*Cary*) develops medical devices for enhancing and improving patient care in the critical care and emergency markets. Its first product is a video guided laryngoscope for use in tracheal intubations.

[velosal.com](http://velosal.com)

**Veloxis Pharmaceuticals Inc.** (*Cary*) develops drug delivery technology that increases the absorption and bioavailability of orally administered drugs for transplant patients.

[veloxis.com](http://veloxis.com)



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**Verdesian Life Sciences LLC** (*Cary*) develops agricultural products with a focus in plant health, inoculants, seed treatment and nutrition.

[vlsci.com](http://vlsci.com)

**Vertellus Specialties Inc.** (*Greensboro*) manufactures specialty chemicals for the agriculture, nutrition, pharmaceutical, medical and personal care markets.

[vertellus.com](http://vertellus.com)

**Viamet Pharmaceuticals Inc.** (*Durham*) discovers and develops small-molecule compounds that target metalloenzymes in infectious disease, oncology and crop protection.

[viamet.com](http://viamet.com)

**ViiV Healthcare** (*Research Triangle Park*) researches and develops new HIV medicines and partners with the HIV community to improve treatment and access to treatment for people living with HIV.

[viivhealthcare.com/us](http://viivhealthcare.com/us)

**Vijaya Pharmaceuticals LLC**

(Research Triangle Park) provides medicinal and synthetic organic chemistry services to the pharmaceutical and allied industries.

[vijayapharma.com](http://vijayapharma.com)

**ViraSource LLC (Research Triangle Park)**

propagates and purifies BSL-2 viruses and provides animal models of viral infections and antiviral immune responses.

[virasource.com](http://virasource.com)

**ViraTree LLC (Research Triangle Park)**

acquires, authenticates, preserves, develops and distributes virological materials, information and technology for the advancement of virus research.

[viratree.com](http://viratree.com)

**Vital Plan Inc. (Cary)** formulates and produces therapeutically-dosed natural supplements and herbal therapies for managing fibromyalgia, Lyme disease, chronic fatigue and pain and hormonal imbalances.

[vitalplan.com](http://vitalplan.com)

**Vivelix Pharmaceuticals Corp. (Morrisville)**

licenses, develops and commercializes gastroenterology and hepatology treatments.

[vivelix.com](http://vivelix.com)

**vTv Therapeutics LLC (High Point)**

discovers and develops drug candidates to fill significant unmet medical needs such as Alzheimer's disease, Type 2 diabetes and inflammatory disorders.

[vtvtherapeutics.com](http://vtvtherapeutics.com)

**Waters Agricultural Laboratories Inc.**

(Warsaw) provides various testing services, including soil, plant and water analysis as well as microbiology, mycotoxin, aflatoxin and heavy metals detection.

[watersag.com](http://watersag.com)

**West Pharmaceutical Services Inc.**

(Kinston) manufactures packaging components and delivery systems for injectable drugs and healthcare products.

[westpharma.com](http://westpharma.com)

**White Labs Inc. (Asheville)** provides yeast supplies, lab services and consulting to breweries, wineries and distilleries.

[whitelabs.com](http://whitelabs.com)

**Wilmington Pharmaceuticals LLC**

(Wilmington) develops fast-dissolving dosage forms for established medicines.

[wilmingtonpharma.com](http://wilmingtonpharma.com)

**Worldwide Clinical Trials Inc. (Morrisville)**

provides phase one through phase four drug development services to the pharmaceutical and biotechnology industries.

[worldwide.com](http://worldwide.com)

**Xanofi Inc. (Raleigh)** manufactures nanofibers which may be used in surgery, wound care, regenerative medicine and other fields.

Its first product, XanoMatrix, is a growth platform that mimics native tissue structures in order to simulate in vivo conditions.

[xanofi.com](http://xanofi.com)

**Xellia Pharmaceuticals USA LLC (Raleigh)**

manufactures anti-infective treatments, with an emphasis in lyophilized and liquid sterile manufacturing of small-molecule and biologic therapeutics.

[xellia.com](http://xellia.com)

**Xenobiotic Detection Systems Inc.**

(Durham) offers patented bioassays to facilitate assessment of environmental and human health risks.

[dioxins.com](http://dioxins.com)

**X-in8 Biologicals Corp. (Chapel Hill)**

develops technologies to prevent and treat ischemia reperfusion injury in the context of organ transplant, myocardial infarction and stroke. 💰

[x-in8.com](http://x-in8.com)

**Xona Microfluidics LLC**

(Research Triangle Park) develops and manufactures microfluidic platforms for neuroscience research.

[xonamicrofluidics.com](http://xonamicrofluidics.com)

**Yukon Medical LLC (Durham)** designs and manufactures pharmaceutical drug preparation and delivery devices with a focus on drug reconstitution.

[yukonmedical.com](http://yukonmedical.com)

**Zenalux Biomedical Inc. (Durham)** uses biophotonics to develop diagnostic tools, including an optical system for the clinical detection of cancer.

[zenalux.com](http://zenalux.com)

**ZenBio Inc. (Research Triangle Park)** provides contract research services and human tissues and cells for drug discovery, especially in the area of human metabolic disease and dermatology. 💰

[zen-bio.com](http://zen-bio.com)

**Zenomics Inc. (Durham)** is developing a microneedle transdermal patch technology for diabetes, which is able to sense blood glucose levels and respond with appropriate concentrations of insulin.

**Zinfandel Pharmaceuticals Inc.**

(Chapel Hill) uses pharmacogenetics to improve prediction of risk for Alzheimer's disease and facilitate the development of effective therapies.

**Zoetis Inc. (Durham)** develops and manufactures vaccines and medications for animal health. The Durham site develops and manufactures high throughput automation biodevices for the poultry industry, including in ovo vaccination technology.

[zoetis.com](http://zoetis.com)

**Zoion Pharma Inc. (Raleigh)** develops drugs for veterinary disorders. Zoion's lead product is an epithelial sodium channel blocker compound to treat canine keratoconjunctivitis sicca (KCS) or dry eye. 💰

**Zorbius Biopharma Inc. (Raleigh)** provides analytical, formulation and nanotechnology-related services to pharmaceutical, biotech and medical device companies.

[zorbius.com](http://zorbius.com)

**ZY Therapeutics Inc. (Cary)** is developing a drug delivery platform for cancer therapeutics using nanotechnology.

**Zylera Pharmaceuticals LLC**

(Research Triangle Park) develops, acquires and commercializes prescription products and dietary supplements, specifically for pediatric and women's health.

[zylera.com](http://zylera.com)



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[ncbiotech.org](http://ncbiotech.org)

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