

North Carolina's 10-Year Bioscience Investment Tops \$1.2 Billion

Across the United States and around the world, officials are announcing huge investments to create bioscience clusters. Initiatives are totaling hundreds of millions of dollars, even a billion or more, at a time.

North Carolina started building its foundation 25 years ago when it established the North Carolina Biotechnology Center. Our state has devoted more than \$1.2 billion to the biosciences in just the past 10 years.

We've invested steadily across the state—in biotechnology education and workforce training, university research and its commercialization, entrepreneurial endeavors and biomanufacturing. And now we're home to 500 bioscience companies employing more than 54,000 people.

During the past decade North Carolina has committed:

- **\$857 million into research and facilities**—from translational research and individualized medicine to nanotechnology, cancer research and biofuels;
- **\$135 million toward workforce training**—building on the North Carolina Community Colleges' statewide biotechnology education programs through BioNetwork and other training at community colleges, and the BTEC and BRITE facilities on the North Carolina State University and North Carolina Central University campuses;
- **\$115 million via the North Carolina Biotechnology Center**—building the partnerships and infrastructure to make North Carolina the envy of the world;
- **\$102 million in direct company incentives**—\$95 million in Job Development Investment Grants (JDIGs) and \$7 million in One North Carolina funding, primarily in pharmaceutical manufacturing.

Here is the breakdown of North Carolina's biosciences spending for the past decade.

Summary

Recurring	1999-2003	2004	2005	2006	2007	2008	1999-2008
NC Biotechnology Center	\$30,525,110	\$9,083,395	\$10,583,395	\$12,583,395	\$15,583,395	\$15,427,561	\$93,786,251
Workforce Training: NC Community Colleges, BTEC, BRITE		\$1,000,000	\$13,042,943	\$17,667,943	\$18,667,943	\$19,067,943	\$69,446,772
NC Research Campus				\$7,203,564	\$15,803,564	\$22,803,564	\$45,810,692
UNC Medical Center Translational Research				\$2,500,000	\$2,500,000	\$2,500,000	\$7,500,000
NCSU Bioengineering					\$5,000,000	\$7,000,000	\$12,000,000
ECSU Pharmacy		\$985,815	\$985,815	\$985,815	\$985,815	\$985,815	\$4,929,075
NCA&T/UNCG Nanoscience					\$1,400,000	\$2,900,000	\$4,300,000
UNC Cancer Research					\$25,000,000	\$40,000,000	\$65,000,000
Total	\$30,525,110	\$11,069,210	\$24,612,153	\$40,940,717	\$84,940,717	\$110,684,883	\$302,772,790

Non-Recurring	1999-2003	2004	2005	2006	2007	2008	1999-2008
NC Biotechnology Center	\$14,116,149	\$1,800,000	\$1,500,000	\$500,000		\$4,000,000	\$21,916,149
Workforce Training: NC Community Colleges, BTEC, BRITE	\$60,000,000			\$5,184,150			\$65,184,150
NC Research Campus				\$1,000,000	\$9,300,000		\$10,300,000
UNC Medical Center Translational Research			\$1,000,000				\$1,000,000
Biofuels Center					\$5,000,000	\$5,000,000	\$10,000,000
UNC Genomics Research Commitment	\$100,000,000						\$100,000,000
UNC Medical Biomolecular Research Building	\$30,000,000						\$30,000,000
UNC Bioinformatics Building	\$27,000,000						\$27,000,000
UNC Genomics Science Building				\$28,391,775	\$119,608,225		\$148,000,000
WFU Soldier Institute					\$8,000,000	\$4,000,000	\$12,000,000
NCSU Center for Bioenergy Technologies					\$1,500,000	\$1,250,000	\$2,750,000
UNC Biomedical Research Imaging Center					\$8,000,000	\$35,000,000	\$43,000,000
Bent Creek Institute						\$200,000	\$200,000
NCA&T/UNCG Nanoscience					\$58,000,000	\$1,500,000	\$59,500,000
UNC Cancer Rehabilitation & Treatment Center		180,000,000					\$180,000,000
NC Cardiovascular Diseases Institute at ECU		60,000,000					\$60,000,000
ECSU Pharmacy		28,000,000					\$28,000,000
UNC-CH Center for Bioinformatics		35,000,000					\$35,000,000
Total	\$231,116,149	\$304,800,000	\$2,500,000	\$35,075,925	\$209,408,225	\$50,950,000	\$805,850,299

Total Public Projects **\$1,108,623,089**

JDIG **\$94,593,507**

One NC **\$7,004,000**

Grand Total **\$1,210,220,596**

NC Biotechnology Center

Total Appropriations			
Year	Recurring	Non-Recurring	All
1999	\$5,738,913	\$12,145,490	\$17,884,403
2000	\$6,738,913	\$1,970,659	\$8,709,572
2001	\$6,270,468	\$—	\$5,270,468
2002	\$5,893,421	\$—	\$5,643,421
2003	\$5,883,395	\$—	\$5,883,395
2004	\$9,083,395	\$1,800,000	\$10,883,395
2005	\$10,583,395	\$1,500,000	\$12,083,395
2006	\$12,583,395	\$500,000	\$13,083,395
2007	\$15,583,395	\$—	\$15,583,395
2008	\$15,427,561	\$4,000,000	\$19,427,561
Total			\$114,452,400

Workforce Training

Total Appropriations				
Year		Recurring	Non-Recurring	All
2003	BTEC*	\$—	\$33,500,000	\$33,500,000
	BRITE*	\$—	\$17,800,000	\$17,800,000
	NC Community Colleges*	\$—	\$8,700,000	\$8,700,000
Total		\$—	\$60,000,000	\$60,000,000
2004	BTEC	\$500,000	\$—	\$500,000
	BRITE	\$500,000	\$—	\$500,000
	NC Community Colleges	\$—	\$—	\$—
Total		\$1,000,000	\$—	\$1,000,000
2005	BTEC	\$3,441,079	\$—	\$3,441,079
	BRITE	\$2,500,000	\$—	\$2,500,000
	NC Community Colleges	\$7,101,864	\$—	\$7,101,864
Total		\$13,042,943	\$—	\$13,042,943
2006	BTEC*	\$5,441,079	\$2,570,000	\$8,011,079
	BRITE*	\$5,000,000	\$2,300,000	\$7,300,000
	NC Community Colleges	\$7,226,864	\$314,150	\$7,541,014
Total		\$17,667,943	\$5,184,150	\$22,852,093
2007	BTEC	\$5,441,079	\$—	\$5,441,079
	BRITE	\$6,000,000	\$—	\$6,000,000
	NC Community Colleges	\$7,226,864	\$—	\$7,226,864
Total		\$18,667,943	\$—	\$18,667,943
2008	BTEC	\$5,441,079	\$—	\$5,441,079
	BRITE	\$7,000,000	\$—	\$7,000,000
	NC Community Colleges	\$6,626,864	\$—	\$6,626,864
Total		\$19,067,943	\$—	\$19,067,943
Grand Total			\$134,630,922	

* Golden LEAF Grant

NC Research Campus

Year		Total Appropriations		
		Recurring	Non-Recurring	All
2006	UNC	\$5,000,000	\$1,000,000	\$6,000,000
	NC Community Colleges	\$2,203,564	\$—	\$2,203,564
	Total	\$7,203,564	\$1,000,000	\$8,203,564
2007	UNC	\$13,500,000	\$8,000,000	\$21,500,000
	NC Community Colleges	\$2,303,564	\$1,300,000	\$3,603,564
	Total	\$15,803,564	\$9,300,000	\$25,103,564
2008	UNC	\$19,500,000	\$—	\$19,500,000
	NC Community Colleges	\$3,303,564	\$—	\$3,303,564
	Total	\$22,803,564	\$—	\$22,803,564
Grand Total				\$56,110,692

JDIG / One NC

JDIG	Amount	Year
Becton Dickinson	\$4,165,852	2008
GlaxoSmithKline	\$1,859,000	2005
Hospira	\$1,812,000	2005
INC Research	\$19,793,000	2007
Merck	\$5,514,655	2004
Novartis Vaccines & Diagnostics	\$8,015,000	2006
Novo Nordisk Pharmaceutical Industries	\$3,032,000	2004
PRA International	\$10,086,000	2007
Quintiles Transnational	\$28,554,000	2006
Stiefel Research Institute	\$3,000,000	2006
TransTech Pharma	\$8,762,000	2007
Total	\$94,593,507	

One NC	Amount	Year
Eisai	\$150,000	2006
Galexe Pharma Sciences	\$250,000	2008
GlaxoSmithKline	\$500,000	2005
Metrics	\$150,000	2006
Microban International	\$45,000	2007
Nitta Gelatin USA	\$34,000	2004
Novartis Vaccines & Diagnostics	\$3,000,000	2006
Novo Nordisk Pharmaceutical Industries	\$250,000	2004
Quintiles Transnational	\$2,000,000	2006
Sandoz (Eon)	\$150,000	2006
United Therapeutics	\$175,000	2006
West Pharmaceutical Services	\$300,000	2007
Total	\$7,004,000	



**North Carolina
Biotechnology Center**

15 T.W. Alexander Drive · P.O. Box 13547 · Research Triangle Park, NC 27709-3547
919-541-9366 · fax 919-224-0124 · www.ncbiotech.org

Offices in ASHEVILLE · CHARLOTTE · GREENVILLE · WILMINGTON · WINSTON-SALEM