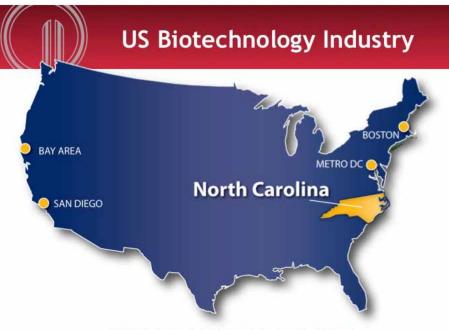


North Carolina

The Complete Package for Biotechnology



NORTH CAROLINA BIOTECHNOLOGY CENTER



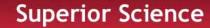
NORTH CAROLINA BIOTECHNOLOGY CENTER

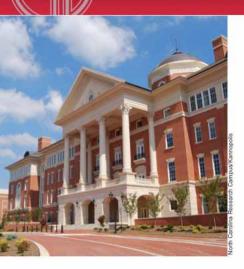




Nowhere else in the world except North Carolina will you find such a vibrant bioscience community built on:

Superior Science





- World-class research institutions
- 5 medical & veterinary schools
- -> \$1.5 billion in research annually at North Carolina universities





- Federal/private research labs: EPA, NIEHS, RTI, The Hamner Institutes
- Strong history of academic-industrial collaboration

The Complete Package



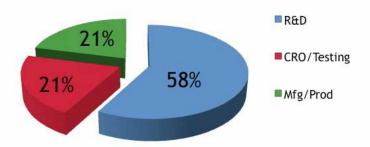
Nowhere else in the world except North Carolina will you find such a vibrant bioscience community built on:

- Superior Science
- Thriving Industry



Thriving Industry

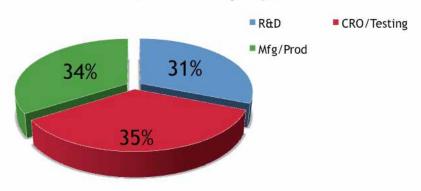
More than 530 Companies





Thriving Industry

59,000+ Employees



NORTH CAROLINA BIOTECHNOLOGY CENTER



Thriving Industry



GRIFOLS































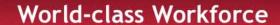


The Complete Package



Nowhere else in the world except North Carolina will you find such a vibrant bioscience community built on:

- Superior Science
- Thriving Industry
- World-class Workforce







full-spectrum approach to biomanufacturing workforce training

 BIONetwork— network connecting community colleges across state offering biotech training programs led by six topic-specific training centers







full-spectrum approach to biomanufacturing workforce training

- BRITE

Biomanufacturing Research Institute & Technology Enterprise



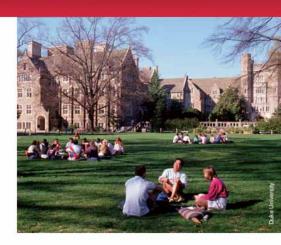


full-spectrum approach to biomanufacturing workforce training

BTEC—Golden LEAF
 Biomanufacturing
 Training and
 Education Center



- 16 campus state university system
- 36 private colleges and universities





Institutions of Learning





NORTH CAROLINA BIOTECHNOLOGY CENTER



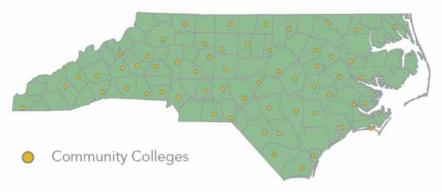
- 59 campus community college system
- Unrivaled workforce education and training capability





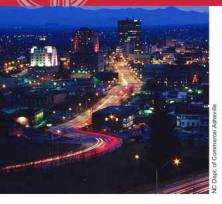
Institutions of Learning





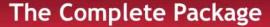
NORTH CAROLINA BIOTECHNOLOGY CENTER





Nowhere else in the world except North Carolina will you find such a vibrant bioscience community built on:

- Superior Science
- Thriving Industry
- World-class Workforce
- Strengths Statewide





Nowhere else in the world except North Carolina will you find such a vibrant bioscience community built on:

- Superior Science
- Thriving Industry
- World-class Workforce
- Strengths Statewide
- Long Term
 Commitment to
 Biotechnology



North Carolina Biotechnology Center



We Make the Connections that Commercialize Life-Science Ideas

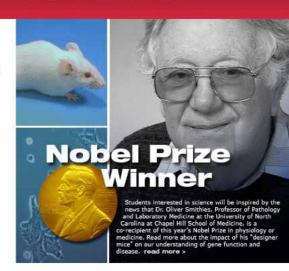


Supporting biotechnology research, business and education statewide since 1984



Research/Grants

- Grant funding for:
 - New research ideas
 - Build capacity equipment and faculty
 - Regional development
- \$50M+ granted
- Networking groups



Business Loans and Support



- Small company support
 - Inception, research and growth phases
 - Stakeholder support network (BATON)
- Low interest loans
- Events and programs



Workforce & Education

- Develop K-12 biotechnology through:
 - Lab equipment for classrooms
 - Teacher workshops
- Grants for biotechnology education projects at all levels





Strengths Statewide



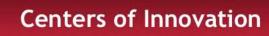
- Western (Asheville)
- Greater Charlotte
- Piedmont Triad (Winston-Salem)

- Research Triangle Park
- Eastern (Greenville)
- Southeastern (Wilmington)



Maximize business opportunities and accelerate commercialization of science and technology by identifying and aligning industry needs with ongoing research.

- University researchers
- Technology transfer offices
- Industrial partners
- Non-profit stake holders
- Regional/state-wide community leaders

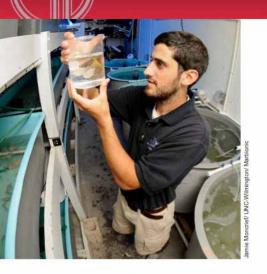




Advanced Medical Technologies (Ibiliti™)

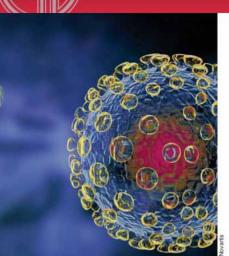


Drug Discovery (DDCOI)



Marine Biotechnology





Nanobiotechnology (COiN)



Breaking It Down



FACILITATION

Research Grants

University Infrastructure / University Research Centers of Innovation

Technology Transfer / Commercialization

OLLABORATI

IDEA

IDEA TRANSLATION

Business Loans

Company Inception / Company Research / Company Growth

COMPANY FORMATION & GROWTH Education & Workforce Grants

> Curriculum Development / Educational Tools / Teacher Training

EXPANSION

New Jobs

Long Term Commitment to Biotechnology



\$100 million invested in bioscience programs in 2010 \$1 billion in the past 10 years

The North Carolina Biotechnology Center has invested \$200 million in grants, loans and other programs over last 25 years to solidify the state's biotechnology foundation and to leverage further investment.



Grants and Loan Funding

Science & Tech Development

- Grant Programs
- **-\$1 →\$31.10 (\$1.25 \$78.41)**
- Educational/Networking events



Grants and Loan Funding

Business & Tech Development

- Grant Programs
- **-\$1→\$103**
- Technical Assistance
- Networking events





Partnering with

- NC agencies
- Federal agencies
- Industry
- Policy makers
- Investors
- Universities
- Community colleges
- International clusters



North Carolina's Value

- #1 Best Business Climate
 - Site Selection, 9/10 past years, Nov 2010
- #2 Best State for Business
 - Chief Executive, CEOs, May/June 2010
- Forbes Best Places for Businesses and Careers, 2010
 - Raleigh #3
 - Charlotte #17
 - Asheville #21
 - Durham #23









North Carolina's Value

METRO AREA Greensboro NC Asheville NC 2 Wilmington NC 3 4 Hickory NC Shreveport LA 5 6 Winston-Salem NC 7 Kingsport TN R Fort Smith AR 9 Springheid MO 10 Favetteville AR 11 Fort Wayne IN 12 El Paso TX 13 Roanoke VA 14 San Antonio TX 15 16 Boise ID 17 Chattanooga TN 18 Knoxylle TN 19 Eugene OR 20 Lincoln ME 21 22 Cedar Rapids IA Oklahoma City OK 23 Clarksville TN 24 25 Mobile AL

MILKEN INSTITUTE

2007 Cost-of-Doing Business Index

www.milkeninstitute.org

2007 Rank	Previous Rank	State	Wage Cost Index ⁽⁶⁾	Tax Burden index ^(B)	Electricity Cost Index ⁽⁸⁾	Industrial Rent Cost Index ⁽⁴⁾	Office Rent Cost Index th	Cost of Dain Business Ind
1	1	Hawaii	91.9	163.1	260.7	289.5	140.4	151.5
2	2	New York	128.5	102.5	141.5	154.4	189.4	130.9
3	3	Alaska	100.3	153.0	150.3	292.7	84.5	130.8
4	5	Massachusetts	122.1	101.0	187.8	129.0	165.7	130.6
.5	4	Connectout	128.6	106.8	103.8	113.5	110.1	127.5
	0	California	114.8	120.6	134.7	141.4	141.4	122.9
7	7	New Jersey	121.2	94.5	129.7	181.0	117.3	120.9
. 8		Vermont	83.9	172.1	134.0	91.9	87.3	110.2
9 -	9	Delaware	110.5	132.1	87.6	96.3	112.2	110.1
10	14	Rhode Island	94.0	105.6	174.9	74.0	118.7	108.0
11	- 11	Maryland	109.9	90.4	124.1	94.7	115.4	108.4
12	12	New Hampshire	99.4	61.0	187.2	120.4	71.1	105.3
13	10	Minnesota	96.8	133.2	77.7	121.3	89.0	104.3
14	16	Nevada	96.4	102.2	115.9	114.2	134.5	104.2
15	17	Washington	104.3	105.4	74.0	118.0	156.2	102.7
16	19	Wysming	86.1	155.8	88.0	133.6	77.4	101.6
17	28	Maine	80.4	129.1	143.1	86.9	81.7	100.3
18	15	Illinois	107.5	88.2	80.3	100.6	126.0	99.9
19	20	Florida	91.4	88.3	117.3	125.0	110.0	99.3
20	13	Michigan	99.5	106.7	95.9	87.9	92.7	96.9
21	18	Pennsylvania	90.5	97.9	102.2	96.9	105.8	97.2
22	22	New Mexico	82.5	135.5	92.4	102.1	83.5	90.6
23	23	Wisconsin	86.2	110.0	93.9	120.6	102.7	96.4
24	26	Texas	100.1	69.9	118.1	95.7	91.0	95.9
25	21	Virginia	104.8	88.3	72.1	97.0	102.0	95.6
76	26	Looisiana	85.7	111.8	114.5	74.0	82.7	93.9
27	29	Colorado	102.7	70.4	94.9	81.8	98.7	92.8
29	24	Arizona	94.2	92.8	83.6	75.6	115.3	91.6
29	32	Ovegon	89.1	93.7	77.5	111.1	106.7	91.4
30	27	Ohio	90.8	99.0	93.4	712	92.6	91.0
31	31	North Carolina	58.4	111.0	91.5	77.2	90.3	90.8



North Carolina



It's just the beginning...

NORTH CAROLINA BIOTECHNOLOGY CENTER