

## Biotechnology <sup>[1]</sup>

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by Robert Blair Vocci, 2006The NC Biotechnoloy Center. <sup>[2]</sup>

North Carolina is home to one of the most dynamic biotechnology industries in the United States. In the early 2000s, 10 percent of all biotechnology firms were based in the state, and North Carolina employed nearly 1 in 10 biotechnology workers. Leading pharmaceutical companies [GlaxoSmithKline](#) <sup>[3]</sup> and [Merck & Co](#) <sup>[4]</sup>, operated facilities in North Carolina, as did firms such as [Bayer](#) <sup>[5]</sup>, [Wyeth](#) <sup>[6]</sup>, [Baxter](#) <sup>[7]</sup>, and [Biogen Idec](#) <sup>[8]</sup>. Many of these companies' facilities in North Carolina are the largest of their type in the world. Additionally, as of the early 2000s, four of the world's largest contract research organizations and testing companies-[LabCorp](#) <sup>[9]</sup>, [Quintiles Transnational](#) <sup>[10]</sup>, [PPD](#) <sup>[11]</sup>, and [AAI](#) <sup>[12]</sup>-were based in North Carolina, representing one of the heaviest concentrations of such companies in the world.

The growth of the biotechnology industry in North Carolina has been encouraged by several factors, including the state's excellent research universities and medical schools and the continuing influence of the [Research Triangle Park](#) <sup>[13]</sup>, a world-renowned research facility located between [Raleigh](#) <sup>[14]</sup> and [Durham](#) <sup>[15]</sup>. The industry has also benefited from generous public investment at the state and local levels. In 1984 the General Assembly created the [North Carolina Biotechnology Center](#) <sup>[16]</sup>, a private nonprofit corporation to promote the industry's development. The center works in three main areas: science and technology development, business and technology development, and education and training. It also works with universities and companies to secure grants, loans, and technical assistance in the biotechnology field. In the early 2000s, in an effort to serve a larger portion of the state, the center established branch offices in [Greenville](#) <sup>[17]</sup>, [Wilmington](#) <sup>[18]</sup>, [Winston-Salem](#) <sup>[19]</sup>, [Asheville](#) <sup>[20]</sup>, and [Charlotte](#) <sup>[21]</sup>.

North Carolina has seen its biotechnology sector increase at annual rates of between 10 and 15 percent through the early 2000s, generating approximately \$3 billion in annual revenue. It is believed that the state's biotechnology industry will continue to expand to meet the needs of the nation's aging population and to combat the threats of global pandemics and bioterrorism.

### Additional Resources:

NC Biotechnology Center: <http://www.ncbiotech.org/> <sup>[16]</sup>

### Image Credit:

The NC Biotechnology Center. Image courtesy of Flickr user Hidden Peanuts. Available from <https://www.flickr.com/photos/hiddenpeanuts/5670618382/> <sup>[2]</sup> (accessed June 12, 2012).

### Subjects:

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