

# Biotechnology in Cincinnati

## CINCINNATI

### Shaping the Future of Biotech

The world is experiencing a revolution in biomedical research and Cincinnati is well positioned to be a leader in the industry's exciting development.

The region is a hotbed for contract research organizations that support the pharmaceutical industry, as well as R&D centers, such as the Vontz Center for Molecular Studies, one of the nation's most advanced facilities for the study of cancer and neuroscience, and five federal research facilities.

Take a closer look at Cincinnati, where the future of biotechnology is taking shape.

### An experienced workforce

Cincinnati ranks fourth among U.S. cities for largest employment in the areas of biotechnology, chemicals, pharmaceuticals, and advanced materials. In addition, more than 82,000 people work in health services, making it the region's largest employment sector.

(Source: Ohio Bureau of Employment Services)

### Supply chain support

The region has nearly 4,000 biomedical, research, and related support businesses, including chemicals and allied products, instruments, wholesale medical and hospital equipment, and research & testing services.

(Source: U.S. Census Bureau)

### Industry-related education

- Nearly 100 colleges and universities prepare our workforce for engineering and other technical positions.
- The University of Cincinnati (U.C.) is designated a "Research I University" by



the Carnegie Commission.

- U.C.'s Medical Center is nationally ranked among the top 25 academic research centers, with top 10 programs in Molecular Genetics, Environmental Health, Obstetrics and Gynecology, and Pediatrics.
- The BioXperience internship program at Xavier University provides students with entrepreneurial opportunities in the biomedical industry.
- Cincinnati State Technical & Community College offers a two-year biotechnician program.

### A leader in biotech

- Cincinnati ranks in the top third of U.S. cities for funding from the National Institutes of Health.
- U.C.'s Engineering Research Center is home to 14 research centers, ranging from biomedical engineering and energy systems to membrane technology.
- Cincinnati's seven venture capital firms have invested more than \$2 billion in the region between 1990-2000.
- Bio/Start—a Cincinnati-based biotech incubator that links biotech start-ups with needed expertise, funding and networking opportunities — has assisted 17 start-up companies.

## The Vontz Center for Molecular Studies



# Cincinnati Company Profiles

## **CINCINNATI USA**

**Home to industry innovators**

The region's biotech leaders include:

### **Cincinnati Children's Hospital Medical Center**

Children's Hospital has the nation's largest pediatric research facility. The facility ranks fourth in National Institutes of Health pediatric funding, and the program's breakthrough discoveries include the oral polio vaccine and the first practical heart-lung machine.

### **Ethicon Endo-Surgery**

A Johnson & Johnson company, Ethicon Endo-Surgery develops innovative products such as a minimally invasive surgical instrument using ultrasonic energy and a biopsy system for diagnosing early-stage breast cancer. Their Endo-Surgery Institute trains surgeons in the newest surgical techniques and procedures.

### **Girindus America Inc.**

Girindus America Inc. is a subsidiary of German-based Girindus AG, a leader in developing and producing small molecules, proteins and other active pharmaceutical ingredients for the biopharmaceutical industry. The Cincinnati facility provides process R&D and manufacturing for key pharmaceutical projects.

## **Kendle International Inc.**

Headquartered in Cincinnati, Kendle provides clinical development services for the pharmaceutical and biotech industries throughout the world. In 2000, the company was named to Deloitte & Touche's Technology Fast 500 ranking of the fastest-growing North American technology companies, based on revenues.

### **The Procter & Gamble Company**

Consumer giant P&G invested over \$1.7 billion in R&D in 2000. A new 1.3-million sq. ft. center in Mason, Ohio, is the hub for a global network of healthcare R&D facilities. P&G Pharmaceuticals division focuses on research for cardiovascular, infectious and musculoskeletal diseases.

### **Shire US Inc.**

Shire US is part of UK-based Shire Pharmaceuticals Group plc, a fast-growing international specialty pharmaceutical company. Shire exceeds the industry average for R&D investment and focuses on three therapeutic areas: central nervous system disorders, oncology and anti-infectives.

For additional information about locating your business in Cincinnati, visit: [www.CincinnatiUSA.org](http://www.CincinnatiUSA.org)

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