

BUTLER COUNTY, OHIO - RESEARCH & DEVELOPMENT

The Cincinnati – Dayton region is home to a diverse group of industries including aerospace, biotechnology, pharmacology, manufacturing technology, advanced materials, paper and packaging, and computer software. R&D centers, located in Southwest Ohio, include:



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A total of 40,000 scientists and engineers live within a 50 mile radius of Butler County and 51% of the population 25 and older has either some college, an associate degree, a bachelor's degree, or graduate or professional degrees.



Aerospace and Defense Technology

GE Aircraft Engines: A global leader in research, design, development, manufacturing, and service support of propulsion systems, GE Aircraft Engines (GEAE) had 2002 Revenues of \$11.1 billion with a total worldwide workforce of 26,000. It is the world's leading producer of large and small jet engines for commercial and military aircraft, supplies aircraft-derived engines for marine applications, and provides aviation services. GEAE's technological excellence is supported by continued investment in extensive research and development which has been the foundation of its growth. It produces 37 engine types, powering 91 aircraft systems and 42 marine and industrial applications. GE Engine Services operates in more than 40 locations worldwide.

Wright-Patterson Air Force Base (WPAFB): WPAFB is one of the Cincinnati - Dayton region's most important assets for research and development, economic impact, and growth opportunities. With 47,000 employees inside and outside the Base and an economic impact of \$2.5 billion dollars annually, WPAFB is Ohio's largest single-site employer. The base is one of the largest and most important bases in the United States Air Force.

It is managed and maintained by Aeronautical Systems Center, the Air Force organization responsible for developing, acquiring, modernizing, and sustaining the world's best aerospace systems. It is in many measures the largest, most diverse, and organizationally complex base in the Air Force with missions ranging from acquisition and logistics management to research and development, as well as education, flight operations, and many other defense related activities.

WPAFB is home to the foremost aeronautical and aerospace research organization in the Air Force, the Air Force Research Laboratory; the Air Force Institute of Technology which trains thousands of students each year; the National Air Intelligence Center; the Aeronautical Systems Center; the Air Force Security Assistance Center; the Material Systems Group; Air Force Material Command Headquarters; and the Air Force Museum which receives more than 1.2 million visitors a year. Also housed at WPAFB are the:

- Air Force Research Lab Human Effectiveness Directorate
- Air Force Research Lab Materials and Manufactures Directorate
- Air Force Research Lab Propulsion Directorate
- Air Force Research Laboratory Sensors Directorate
- Acquisition Environmental, Safety & Health Division
- Aerospace Engineering Directorate
- B-1B System Program Office
- Contracting Directorate
- Engineering Standards Office
- Major Shared Resource Center
- 88th Air Base Wing
- 445 Airlift Wing

Biomedical and Consumer Products

Procter & Gamble: P&G has a long history of scientific research in the areas of health, hygiene, and nutrition dating back more than 50 years. In 2001, because of a growing and important consumer need for products that effectively prevent disease and provide symptom relief, P&G combined a wide range of health-care research into one research institute, the P&G Health Sciences Institute north of Cincinnati. The P&G Health Sciences Institute focuses its research efforts in the areas of safe-water, musculo-skeletal pain relief, respiratory care, gastrointestinal health, hygiene, and weight management/nutrition. Core competencies of the Institute include basic research, clinical development and performance testing, regulatory affairs, product formulation, and safety assessment. In addition to these more typical health care development capabilities, the Institute has core capability in consumer research and understanding and the ability to turn this understanding into effective products. The P&G Health Sciences Institute, through the efforts of more than 200 scientists and in collaboration with external partners, is dedicated to identifying, developing, and using leading health care technologies in the development of effective products for both the developing and developed world.

Ethicon Endo-Surgery: The region is home to the group headquarters and product development center for surgical closures and medical devices division of Johnson & Johnson. Ethicon Endo-Surgery, Inc. (EES) develops and markets a broad portfolio of advanced surgical instruments and medical devices for minimally invasive and traditional surgery. The EES mission is to help physicians around the world transform patient care through R&D and innovation. The company's focus is on designing innovative, procedure-enabling medical devices for interventional diagnosis and treatment of various diseases and conditions in the areas of general and thoracic surgery, breast disease, gynecology, oncology, and urology.

Kendle International Inc: Kendle is a premier provider of quality clinical development services for the pharmaceutical and biotechnology industries. With headquarters in Cincinnati, Ohio and offices strategically located throughout North America, Europe and Asia, Kendle provides extensive global monitoring capabilities along with the unique combination of experience and technology to expedite all phases of the clinical development process.

Meridian Diagnostics: Meridian makes disposable test kits used for the diagnosis of bacterial and viral illnesses. The company's technology allows the rapid diagnosis of a variety of illness which can assist in the diagnosis of gastrointestinal infections and the detection of opportunistic diseases that affect patients with cancer, AIDS, and other immunosuppressive conditions.

Barr Pharmaceuticals, Inc: Is an established pharmaceutical company engaged in developing, manufacturing, and marketing generic and proprietary prescription pharmaceuticals. The Company currently manufactures and distributes more than 100 pharmaceutical products in core therapeutic categories including oncology, female healthcare (including hormone replacement and oral contraceptives), cardiovascular, anti-infectives, and psychotherapeutics. The Company's business strategy has three core components: developing and marketing proprietary pharmaceuticals; developing and marketing generic pharmaceuticals that have one or more barriers to entry; and developing the generic version and then challenging patents protecting select brand pharmaceuticals where the Company believes that such patents are either invalid, unenforceable, or not infringed by the Company's product.

Girindus AG: German-based Girindus is an independent, technology-driven company offering the pharmaceutical industry comprehensive skills, including process R&D, cGMP-compliant scale-up, and manufacture of active pharmaceutical ingredients (APIs), as well as regulatory support. Girindus delivers the fastest fully integrated way of moving a drug candidate from lead identification through clinical trials up to commercial API production. For biomed, preclinical, phase I, and radiosynthesis needs, Girindus operates laboratories and pilot plant facilities in Cincinnati

Kao Brands Company: Japanese-based Kao Brands is an \$8.5 billion international company that manufactures, markets, and sells consumer products including soap, detergent, shampoo; prestige cosmetics; and chemical products. Its products include Ban deodorants, Jergens and Curél hand and body lotions, Bioré facial care, John Frieda Frizz-Ease, and Sheer Blonde and Brilliant Brunette professional hair care products. Cincinnati is the home to the former the Andrew Jergens Company and its research and development center for cosmetics, toiletries, and soaps now owned by Kao.

Ohio: The Right Atmosphere for medical and bioscience success

Ohio has had a history of innovation that spans more than 100 years, so it should come as no surprise that the state has been nurturing a cutting-edge medical device industry over the past few years.

Ohio research organizations earned \$505 million in National Institutes of Health (NIH) funding and nearly \$95 million in National Science Foundation (NSF) funding, a jump of 54% over the past two years. There are five Ohio research institutions ranked in the top 90 NIH funding recipients. Bioscience (which includes medical device manufacturing, biopharmaceutical and health care services) employment in Ohio grew by nearly 14,000 jobs or 64% compared with the national growth of 31% between 1996 and 2002, according to the Ohio Department of development. Ohio's reputation for clinical excellence and biomedical research was recently acknowledged when U.S. News & World Report ranked 17 Ohio hospitals in its "America's Best" list, tied with California for the most in the nation. The Cleveland Clinic was ranked fourth overall, and its Heart Center has been ranked first in the nation for 10 straight years. Ohio also ranks among the top eight states in the total number of clinical trials hosted.

Cutting-edge industry such as nanotechnology is thriving in Ohio, as is evidenced by the recent Nano Week meeting held in Cleveland. More than 300 people showed up for the week-long summit. Ohio has already been recognized for its nanotech potential. Small Times, a nanobusiness industry trade magazine, says Ohio has the 10th best nanotech industry in the nation, recognizing the research underway in its area universities, an increasing interest by area companies, and the immediate potential in the polymer and health-care industries.

One of Ohio's newest rising stars in the medical device field is NDI Medical, a company that is developing devices which utilize electrical stimulation to treat neurological disorders and diseases. NDI chose Ohio for its home for good reasons. Ohio has created a "buzz" in the industry through its Third Frontier Project, a 10-year, \$1.1 billion initiative to expand high-tech research capabilities, promote innovation, encourage company formation, and create high-paying jobs in the state of Ohio. Whether it's through partnerships with Ohio's premier academic centers, such as Case Western Reserve University, or through independent initiatives, a biotech start-up like NDI has access to the right atmosphere to achieve its goals.

Manufacturing

AK Steel Technology Center – Middletown. The Center's mission is to "conduct product research, process research, product development, and market/product development in support of AK Steel, a \$4 billion steel company, and its customers worldwide." AK Steel is the largest steel supplier to the auto industry and produces flat-rolled carbon, stainless, and electrical steel products, as well as stainless tubular steel products for automotive, appliance, construction, and manufacturing markets.

Harris Broadcast Communications: Is part of the \$2.5 billion Harris Corporation (NYSE: HRS) which is an international communications equipment company focused on providing product, system, and service solutions for commercial and government customers. The company's four operating divisions serve markets for microwave, broadcast, secure tactical radio, and government communications systems. The company manufactures and sells analog and digital broadcast equipment, studio systems, automation, and network management systems. Harris Broadcast Communications has introduced over 70 technology breakthroughs in its 80 year history.

Milacron: Headquartered in Cincinnati, Milacron is one of the world's largest machine tool makers and a pioneer in robotics and process manufacturing systems and related components. Milacron today is a world leader in advanced technologies and leading-edge services and support for the plastics processing industry. The company's premium fluids, including its new "green" fluids made from vegetable oils, offer metalworkers around the globe unmatched performance.

International Paper Corporation: The world's largest paper, packaging, and forest products company's Packaging Technology and Engineering Center for product packaging technology is located in Butler County, Ohio.

UGS PLM Solutions: This Electronic Data Systems' subsidiary provides mechanical design, automation software, and engineering services. The software and services are used to digitally produce and share product planning, design, manufacturing, and distribution information for collaboration over corporate networks and the Internet, a process the company call product lifecycle management.

Equistar Chemicals, L.P: A subsidiary of Lyondell Chemicals, the Equistar Technology Center is a multi-million dollar, state-of-the-art research facility located in suburban Cincinnati, Ohio. The campus houses the company's polymers, polymer specialties, and fundamental research and development functions. Equistar's research and development scientists, engineers and technicians work closely with customers to develop solutions to problems and build knowledge for mutual benefit. The company's Applications Laboratory is one of the largest of its kind in North America. In virtually every application area, Equistar employs some of the most respected authorities in the field.

CINCOM - Cincom's worldwide support network provides 24/7 support to thousands of clients on six continents. Today, Cincom provides solutions for: business communications, data access and integration, manufacturing business solutions, and process automation. CEO Thomas M. Nies is the longest-serving CEO in the entire computer industry. For 35 years, Cincom has helped many of the world's leading organizations transform corporate information into competitive advantage.

Research and Development Tax Credit



BUSINESS/PROJECT

A sales tax exemption for machinery and equipment used in research and development.



ELIGIBILITY

The exemption applies only to equipment, and the equipment must be used in qualified research and development activities.

Qualified research includes "pure" research (scientific or technological inquiry and experimentation in the physical sciences) and "directed" research (research conducted to design, create or formulate new or better products, equipment or manufacturing processes).



INCENTIVES

Ohio companies received financial incentives to produce and perfect the technologies and products of the future.