

GUNSTER

“Life sciences companies, including biomedical, pharmaceuticals, major medical device manufacturing and clinical R&D companies, comprise a flourishing industry in Greater Fort Lauderdale. We proudly support these businesses, whether they are startups or leading global companies, in their growth and development and look forward to welcoming new and emerging businesses to our community.”

Heidi Davis Knapik

SHAREHOLDER, GUNSTER



LIFE SCIENCES

A Leading Center for Research

Greater Fort Lauderdale has been a longtime home for many biomedical companies and the region's colleges and universities are expanding their life science research facilities

Greater Fort Lauderdale provides a stimulating and supportive business environment for life science start-ups, midsize businesses and global companies. Allergan, Stryker, Lupin and Teva are among the major medical device, biomedical, pharmaceutical and clinical research companies with R&D, manufacturing and distribution facilities in Greater Fort Lauderdale.

As a region, South Florida is home to one of the nation's most dynamic industry clusters with convenient access to leading research institutes and academic institutions. In Greater Fort Lauderdale – a longtime home for many biomedical companies – Nova Southeastern University is expanding its life science research facilities. To the north are Scripps Florida, Max Planck Florida Institute, and Torrey Pines Institute for Molecular Studies. To the south, the University of Miami's Miller School of Medicine and Florida International University's Biomedical Engineering Department are investing in biomedical research and commercialization programs.

A Collaborative Approach

South Florida's academic institutions, research parks and economic development organizations have joined together to form Life Sciences South Florida (LifeSciencesSF.org).

On a statewide level, BioFlorida is the voice of Florida's life sciences industry with regional chapters that represent nearly 5,500 establishments and research organizations in the biotechnology, pharmaceuticals, medical devices/diagnostics and bioagriculture sectors. BioFlorida's initiatives provide a strong business climate for the advancement of innovative products that improve lives and promote economic benefits to the state.

Another collaborative asset is the Florida Institute for the Commercialization of Public Research, which facilitates the creation of spin-off companies from technology developed at Florida's publicly funded research institutions. The institute provides support services, including building relationships with seasoned entrepreneurs, in order to hasten the growth of commercially viable discoveries.

A Diverse Industry Cluster

South Florida is home to approximately 1,500 bioscience businesses and institutions that employ more than 26,000 people and generate over \$4

billion in sales, according to recent surveys. Leading companies in Greater Fort Lauderdale include:

- **Allergan** is a brand/generic pharmaceutical company formerly known as Actavis. The company's pharmaceutical manufacturing and warehousing facility in Davie manufactures about 2.2 billion units annually. It is approved by the U.S. Food and Drug Administration, Health Canada, and the European Medicines Agency.
- **Aveva Drug Delivery Systems** is a global leader in transdermal drug delivery systems. The Hollywood company is part of Apotex, Canada's largest pharmaceutical company.

• **Bolton Medical** in Sunrise develops new products for endovascular aortic treatment. One of Bolton's products is its Relay Thoracic Stent-Graft with Plus Delivery System, a life-saving technology offered to patients with thoracic aortic aneurysms. It allows surgeons to achieve a more satisfactory placement of the stent graft on a range of different patients.

• **Florida Supplement** is a nutraceutical manufacturer and packager of nutritional supplements in tablets, capsules, liquids and power blend forms. Located in Miramar, Florida Supplement has manufactured nutritional supplement products for customers in the United States, Latin America and Europe.

• **Goodwin Biotechnology, Inc.** is a fully integrated contract manufacturing organization of monoclonal antibodies and recombinant proteins for preclinical and phase I/II/III clinical trials. Plantation-based GBI has worked with companies of all sizes.

Photo courtesy of Florida Atlantic University



Academic Research Facilities

More than 200 research projects are currently underway at Nova Southeastern University (NSU), including studies on cardiovascular disease, anti-cancer therapies, chronic fatigue syndrome, autism, coral reef restoration, stem cells and wildlife DNA forensics, among other subjects.

Researchers from the NSU Cell Therapy Institute recently had three articles published in peer-reviewed scientific journals covering key discoveries and findings in the areas of cancer immunotherapy and stem cell research. The NSU Cell Therapy Institute is an international collaboration with prominent medical research scientists from Sweden's Karolinska Institutet (KI), globally recognized for its Nobel Assembly, which awards the Nobel Prize in Physiology or Medicine annually.

NSU's Center for Collaborative Research (CCR) opened in September 2016 as one of the largest and most advanced research facilities in Florida. Located adjacent to the university's Health Professions Division complex on NSU's Fort Lauderdale/Davie Campus, the 218,000-square-foot, six-story building is equipped with wet and dry labs; leading research equipment, including access to a high-performance computing environment; and other resources, such as Florida LambdaRail, a high-speed broadband service delivery network.

Housed in the CCR, NSU's Technology Incubator enables qualified companies to lease private space (up to 60,000 square feet) that will give them access to researchers, technology and labs. The CCR includes several core facilities, including a Genomics Core Facility for sequencing human genes associated with disease, Flow Cytometry Core Facility for isolating special cell types such as immune and stem cells, Cell Therapy Core Facility for developing immunotherapies and regenerative medicines, and Imaging Core Facility with advanced digital microscopy capabilities.

In order to efficiently address key issues facing humanity, NSU has established several research institutes and centers using a multidisciplinary, interprofessional approach. Housed in the CCR, these include NSU's AutoNation Institute for Breast and Solid Tumor Cancer Research, NSU Cell Therapy Institute (a partnership with researchers from Karolinska Institutet in Sweden), NSU's Institute for Neuro-Immune Medicine, NSU's Rumbaugh-Goodwin Institute for Cancer Research, and NSU's Emil Buehler Research Center for Engineering, Science, and Mathematics.

NSU's College of Osteopathic Medicine serves the region with a variety of clinical and research programs. For example, NSU's Institute for Neuro-Immune Medicine treats patients with conditions such as chronic fatigue syndrome/myalgic encephalomyelitis, Gulf War Illness and other neuro-immune conditions, and conducts basic and clinical research in this field.

For more information on life sciences companies, see www.gflalliance.org.



- **Hema Diagnostic Systems, LLC** is a Miramar company that produces a full line of rapid diagnostic assays for major infectious disease testing.
 - **ImmunoSite Technologies, LLC** is a Miramar-based provider of automation, design and customization of complex biological assays to biotechnology and pharmaceutical industries worldwide.
 - **Lupin Pharmaceuticals** recently opened a new facility in Coral Springs. The company is a U.S. subsidiary of Lupin Limited, a research-oriented pharmaceutical company headquartered in Mumbai, India. The Coral Springs facility focuses on inhalation products for the treatment of asthma, allergic rhinitis, chronic obstructive pulmonary diseases and other lung diseases.
 - **MAKO Surgical Corp.** is a Stryker medical device company in Davie that markets its RIO® Robotic-Arm Interactive Orthopedic system and its proprietary RESTORIS® implants for minimally invasive orthopedic knee procedures.
- Photo courtesy of Bolton Medical
- **OmniComm Systems, Inc.** is a Fort Lauderdale-based global provider of eClinical solutions.
 - **OrbusNeich** is a medical device company that develops therapies for vascular disease at its Advanced Research and Development facility in Fort Lauderdale.
 - **SHL Pharma** recently expanded its manufacturing and R&D facility in Deerfield Beach. SHL Pharma is part of SHL Group, the world's largest privately owned designer, developer and manufacturer of advanced drug delivery systems.
 - **Teva Pharmaceutical Industries, Ltd.**, handles engineering, information technology and purchasing services at its facility in Weston.
 - **Trividia Health**, a subsidiary of China-based Sinocare Group, has a large facility in Fort Lauderdale that makes glucose-monitoring equipment and related products for diabetics.
 - **U.S. Stem Cell Inc.** in Sunrise has multiple cell therapies in various stages of development that repair tissues damaged by injury or disease.

Photo courtesy of NSU Center for Collaborative Research

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why are so many life science companies locating in greater fort lauderdale?



nearly **13,000** life science workers in south florida

Access to leading research & academic institutions with **heavy investing** in the **biomedical research and commercialization programs**

5 universities that offer life science master's degrees



4 universities that offer life science doctorates



Organizations like **life sciences south florida** have been created to focus on stimulating economic growth in the region

florida ranking among states

2nd fda registered medical device manufacturing facilities

3rd pharmaceutical & manufacturing business



10 airports
3 major international
7 private for executives and business travelers



port everglades
#1 container port in Florida
#1 seaport for exports in Florida



2 top exports
medical devices
medicine



82° average temperature



zero state income tax

35 colleges & universities

access to over **5.9 million people** and 90+ languages

south florida is home to one of the nation's most **dynamic life science clusters**

greater **fort lauderdale alliance** | broward county
Life. Less taxing.
lesstaxing.com