Florida Atlantic University

DRIVING DISCOVERY...

SPURRING ECONOMIC GROWTH

FAU™

Florida Atlantic University educates our citizens, prepares our future leaders, spurs economic growth through research, education and innovation, and attracts some of the world's brightest minds to our region.

HISTORY

Florida Atlantic University (FAU) was established by the Florida State Legislature in 1961 as the fifth public university in the state system. Located in rapidly growing South Florida, FAU offers a comprehensive array of undergraduate and graduate programs and provides more than 170 degree programs to 28,000 students who bring rich cultural diversity to campus life. FAU is a member of the Southern Association of Colleges and Schools, the Council of Graduate Schools in the U.S., the Association of Public and Land-grant Universities, the Southeastern Universities Research Association and the Oak Ridge Associated Universities.

Economic Impact and Engagement

- FAU has an economic impact in South Florida of more than $1.15 billion annually.
- More than $154 million was awarded in 2009-10 to students through scholarships, grants, loans and work study.
- People from all 50 states and more than 130 countries study, live and work at FAU.
- More than 2,500 students live on campus.
- With more than 3,500 employees, FAU ranks among this region's largest and most stable employers. More than 1,500 of those employees are members of FAU's world-class faculty.
- FAU has numerous multi-disciplinary programs to prepare students for the competitive job market.
- Florida Atlantic Research and Development Parks are located on 77 acres at the north end of FAU's Boca Raton campus and on 14 acres in Deerfield Beach. The research park in Boca Raton is also home to the Technology Business Incubator, which currently houses 19 emerging technology companies across multiple industries.

Research

FAU brings in millions of dollars in research funding from state, federal and private sources including the National Science Foundation, Office of Naval Research, the National Institutes of Health, the U.S. Department of Education, the U.S. Department of Energy and the U.S. Department of Health and Human Services.

Technology Transfer and Commercialization

- FAU has been transferring advanced and emerging technologies from its laboratories to the commercial sector since 1991.
- To date, FAU has been granted 136 patents from the United States, Canada, Denmark, France, Germany, Great Britain, Italy, Japan, the Netherlands, Spain, Sweden and Switzerland.
- FAU's patents cover the fields of electrical, mechanical and ocean engineering, computer engineering and computer science, biology, chemistry, biochemistry, biomedical sciences and marine biotechnology.
- FAU technologies have been licensed to many businesses from large Fortune 500 companies, including Lockheed Martin, to small companies, including recent start-ups.
- FAU has numerous technologies available for licensing which span a broad range of fields that include the physical sciences, life sciences and marine biotechnology.

Resources for Business and Industry

Business and industry are an integral part of the FAU community, and there are numerous services, programs and resources available at the University to ensure success:

- Executive and Continuing Education – FAU offers certificate, executive, leadership, licensure preparation, management, MBA and online learning programs to help keep South Florida's workforce ahead of the curve.
- Experts and Consulting – FAU faculty and researchers have expertise in a wide range of disciplines.
- Instrumentation – FAU has various scientific and technological instrumentation capabilities available to local industry, including high-performance computing, biotechnology, imaging and chemistry.
- Collaboration and Partnerships – Opportunities for partnerships and collaborations with FAU support the mutual needs of business, industry and academia.

SEEDING FUTURE ECONOMIC GROWTH

Entrepreneurship Programs

A main initiative at FAU is to support our researchers in accelerating their research from the lab to the marketplace and enhance entrepreneurship throughout the University:

- Gap Fund – The program provides "gap" funding awards to help move academic research toward a commercial product or service.
- Adams Center for Entrepreneurship – Through strong community partnerships, the center bridges academics and practice by assisting aspiring entrepreneurs who are interested in business ownership and business ventures, as well as preparing students to be leaders in business, science, engineering and other disciplines.

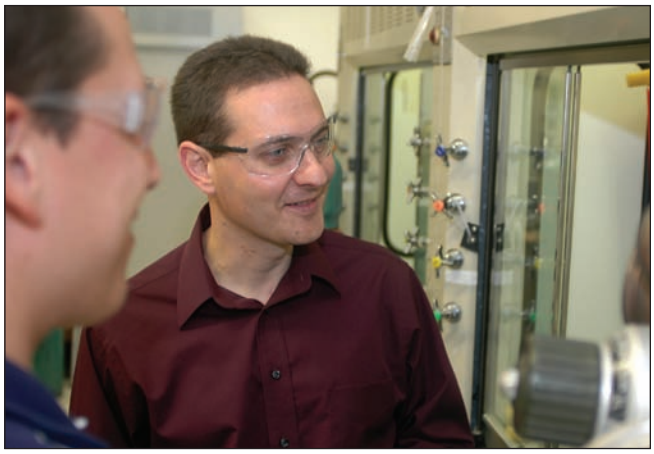
Workforce Development

- FAU Career Development Center – The center prepares undergraduates and graduates for professional employment opportunities by working with employers to hire FAU graduates and to provide internship and co-op opportunities.
- FAU serves as an interface with organizations to provide technology workforce development initiatives and solutions for private corporations and public sector organizations in South Florida.
- The Charles E. Schmidt College of Science in partnership with the College of Business offers a Professional Science Master's Program in Biotechnology to help develop a strong workforce to meet the needs of this growing industry.

Lifesciences/Healthcare

FAU has a strong emphasis in medical research and in training healthcare and biotechnology professionals:

- Center for Molecular Biology and Biotechnology – The center develops research and training programs in molecular biology and biotechnology and serves as a link between FAU and other institutions and industry in this field.
- Charles E. Schmidt College of Medicine – In 2010, Florida Governor Charlie Crist signed legislation authorizing the establishment of FAU's independent medical education program to be housed at FAU's Charles E. Schmidt College of Medicine on the Boca Raton campus. Research programs at the college center on the molecular, cellular and behavioral basis of disease, with the ultimate goal of improving human health.
- Neuroscience Consortium at FAU – One of FAU's research priority areas is focused on bringing together neuroscientists, biologists and biomedical



scientists to work jointly with the Max Planck Florida Institute, Scripps Florida and the Torrey Pines Institute for Molecular Studies to establish a neuroscience consortium. Blending resources and knowledge provides the University with a leading edge in both basic science efforts and the translational aspects of joint neuroscience research. FAU and Max Planck Florida recently launched a joint integrative biology and neuroscience graduate program that is attracting top-notch students across the country and worldwide and will welcome its first class in Fall 2011.
- Drug Discovery at FAU – FAU's Harbor Branch Oceanographic Institute and the Charles E. Schmidt College of Science are at the forefront of the discovery of medicines from deep-sea marine organisms.
- Christine E. Lynn College of Nursing – The college is recognized nationally and internationally for its innovative approaches to nursing education within a caring philosophy and offers accredited baccalaureate, master's and doctoral programs.

- Healthy Aging – As one of FAU's research priority areas, researchers from the Charles E. Schmidt College of Medicine and the Christine E. Lynn College of Nursing are spearheading an interdisciplinary program aimed at improving the quality of life and quality of care for aging Americans. This program includes clinical, translational and basic research to address universal issues of aging.
- Bioengineering Program – FAU's bioengineering program is unique and includes a vast selection of electives including biological sciences, biomedical sciences, complex systems and brain sciences, and nursing. The College of Engineering and Computer Science in collaboration with the Charles E. Schmidt College of Science offers the Bioengineering Graduate Certificate designed to assist engineers, scientists, technical professionals and qualified senior undergraduates in the launch and/or development of their careers and to provide the technical expertise needed in the rapidly changing business, government and industrial environments.
- Laboratory Space – More than 244,000 square feet of laboratory space and other vital research facilities are dedicated to state-of-the-art research at FAU.

Clean Technology/Energy

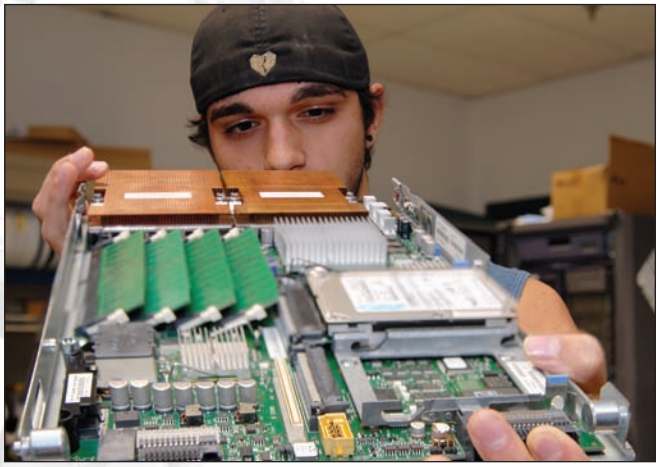
With a number of faculty involved in clean tech and energy-related research, FAU is making a strong impact on improving the environment in Florida and beyond:

- FAU research in this arena includes fuel-cell technology, solar energy, energy and thermal systems, wind engineering and ocean energy.
- The Southeast National Marine Renewable Energy Center at FAU joins national marine energy research centers in the Pacific Northwest and Hawaii that seek to advance the operational readiness of ocean energy technologies. The center is a partnership created to further the assessment of hydrokinetic and thermal ocean-energy resources off the east coast of Florida to advance the development of those resources for commercial-scale electrical power production.

- One of FAU's research priority areas is focused on adaptation to a changing climate. Combining FAU's strengths in hydrology, engineering and ocean sciences, the University will play a major role to address the current status of climate change and its projected impact in South Florida.
- The Center for Environmental Studies at FAU collects, analyzes and promotes the use of scientifically sound information concerning tropical and sub-tropical, freshwater and estuary ecosystems. Its role is to bring the full resources of the Florida State University System to bear on the critical environmental management issues of the state and of tropical and subtropical ecosystems worldwide.

IT/Software

FAU faculty and student research interests and areas of expertise include software engineering, networking and communications, multimedia, VLSI design, computer architecture, distributed systems, database systems and internet engineering:



- FAU's Center for Advanced Knowledge Enablement (CAKE) is one of only nine National Science Foundation-supported centers in the United States and one of two in Florida in the area of information technology, communication and computing. The center provides a framework for interaction between University faculty and industry to pursue advanced research in these fields.
- FAU is a member of the IBM-led Latin American Grid (LA Grid), an effort to create professional IT opportunities for the Hispanic community and to advance research in areas such as life sciences, weather modeling and prediction.
- FAU houses two supercomputers — one in the Charles E. Schmidt College of Science and the other in the College of Engineering and Computer Science.

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- FAU's state-of-the-art Center for Systems Integration is a multidisciplinary research, teaching and training center focused on emerging technologies for real-time embedded system modeling, co-design, co-verification and integration.

Film, Entertainment and Arts

- From theater to visual arts, multimedia, dance and music, FAU's multi-faceted faculty and students in the Dorothy F. Schmidt College of Arts and Letters provide a host of talent and skills in the arts and humanities.
- FAU recently opened a movie theater complex that also serves as classrooms for film students. Operated by Living Room Theaters Inc., the complex consists of four 50-seat theaters that are used during the day by FAU's film study program in the School of Communication and Multimedia Studies. On nights and weekends, the theaters are open to the public and showcase foreign, classic and independent films, emphasizing new releases from around the world. A European-style café serves gourmet food, specialty coffee, beer and wine.

Lectures, Symposia and Workshops

FAU provides various lectures, symposia and workshops throughout the year that are open to the University community and the general public. Among the offerings include Nobel Laureate lectures, a seminar series titled "Frontiers in Science" and various workshops on a variety of subjects ranging from climate change to neuroscience to drug discovery and healthcare.

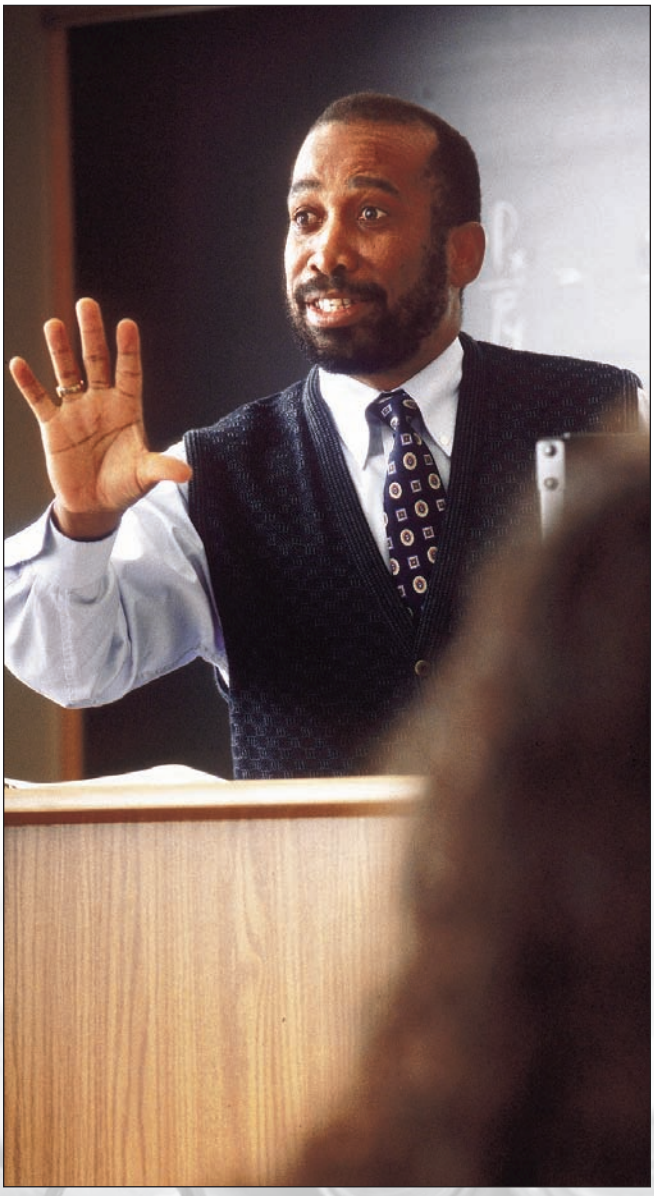
Colleges

- Dorothy F. Schmidt College of Arts and Letters
- College of Business
- College for Design and Social Inquiry
- College of Education
- College of Engineering and Computer Science
- Graduate College
- Harriet L. Wilkes Honors College
- Charles E. Schmidt College of Medicine
- Christine E. Lynn College of Nursing
- Charles E. Schmidt College of Science

Campus Locations

FAU's seven campuses and sites span more than 100 miles along Florida's east coast:

- FAU Boca Raton – FAU's first and largest campus sits on more than 850 acres just east of I-95 and Glades Road. The campus features everything you expect from a contemporary university including state-of-the-art labs and classrooms, suite-style housing for students plus athletic and recreational facilities. The campus is also home to the A.D. Henderson University School, FAU High School, FAU Research Park and the nation's largest Lifelong Learning Society.



- FAU Dania Beach – Also known as SeaTech, FAU Dania Beach is a center of research and education in the field of ocean engineering, an academic discipline that was pioneered at FAU in the 1960s.
- FAU Davie – One of the University's largest campuses, FAU Davie offers a varied selection of undergraduate degree programs in cooperation with Broward College (BC).
- FAU Fort Lauderdale – Located in downtown Fort Lauderdale, this campus is home to a mix of professional and design-oriented programs.

- FAU Harbor Branch (Fort Pierce) – Harbor Branch Oceanographic Institute at FAU is a research center dedicated to exploration, innovation, conservation and education related to the oceans. Harbor Branch joined FAU in December of 2007.
- FAU Jupiter (John D. MacArthur Campus) – The Jupiter campus offers a broad range of undergraduate and graduate degree programs. The campus is home to the Harriet L. Wilkes Honors College, FAU's Center for Molecular Biology and Biotechnology, the Jupiter Lifelong Learning Society, Scripps Florida and the Max Planck Florida Institute.
- FAU Treasure Coast (Port St. Lucie) – The Treasure Coast campus serves a four-county region — St. Lucie, Indian River, Martin and Okeechobee.

Alumni

Nearly 120,000 FAU alumni include U.S. and foreign dignitaries, an Emmy Award winner, a Pulitzer Prize winner, an astronaut and numerous executives who have served in organizations such as Boeing, eBay, Motorola and the White House.

Athletics

The University sponsors 18 NCAA Division I sports and has secured more than 20 conference championships.

Nickname: Owls

Affiliation: NCAA Division I

Conference: Sun Belt

Sports: Baseball, basketball, cross-country, football, golf, soccer, swimming/diving, tennis, softball, track and field, and volleyball

Innovation Village

Florida Atlantic University's Board of Trustees took the first step in enriching the quality of campus life by unanimously approving the development of Innovation Village, a housing, recreation and retail complex that will include student residence halls, shopping and dining establishments and a 30,000-seat, open-air stadium. This addition to the Boca Raton campus will offer the next wave of FAU students the opportunity to enjoy a fuller, more involving university experience as it creates a focal point for a wide array of recreational and social activities. In the next decade, the resident student population on the Boca Raton campus is expected to double to more than 5,000. A tangible example of the school spirit that is rapidly taking root at FAU, Innovation Village will also be an exciting destination for alumni, faculty, staff and members of the greater community. Innovation Village Apartments and the stadium are scheduled to open in Fall 2011.

FACILITIES ON THE BOCA RATON CAMPUS

Barry and Florence Friedberg Lifelong Learning Center

FAU Stadium (Baseball)

Carole and Barry Kaye Performing Arts Auditorium (2,400 seats)

DeSantis Pavilion

FAU Arena (5,000 seats)

FAU Cultural and Society Building
(including a Living Room Theaters movie complex)

Florida Atlantic Research and Development Park

Football Stadium (30,000 seats – under construction)

Innovation Village (under construction)

Live Oak Pavilion

Marleen and Harold Forkas Alumni Center

Office Depot Center for Executive Education

Peter and Nona Gordon Library and Media Center

Recreation Complex – (aquatic center, gymnasium, tennis courts, wellness center, track and a variety of fields for club and intramural sports competition)

Ritter Art Gallery

Schmidt Center Gallery

Wimberly Library (five-story)

Sean Stein Pavilion

FAU Softball Stadium

Tom Oxley Athletic Center (54,000 square feet)

University Theatre (500+ seats)

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