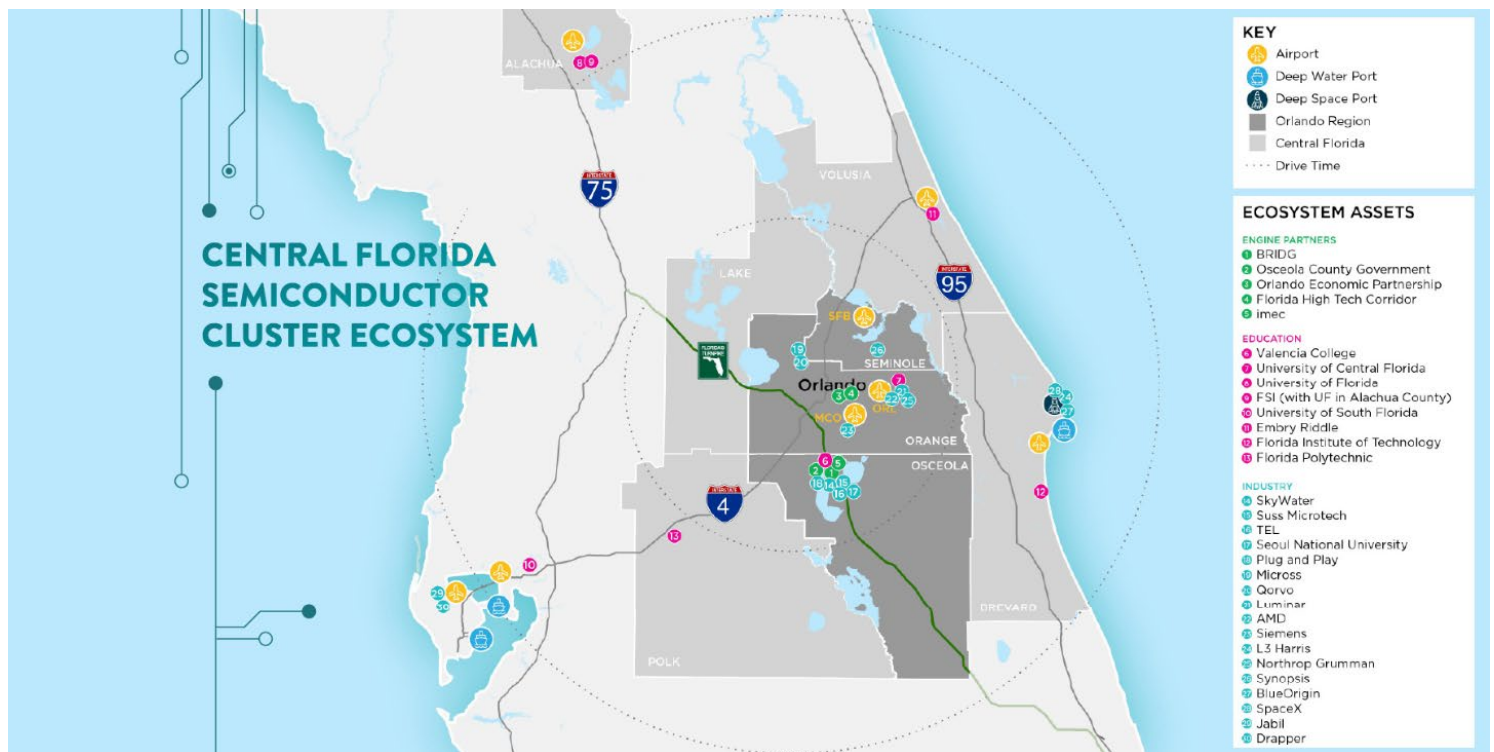


The U.S. National Science Foundation (NSF) [Florida Semiconductor Engine](#) is building an integrated semiconductor ecosystem across 23 counties in the state of Florida. From Tampa Bay through Orlando and to the Space Coast and beyond, The Engine focuses on developing the next generation of specialty and advanced packaging technologies, which produce cutting-edge semiconductors critical for defense, aerospace, medical, automotive, and other industries — bolstering our nation’s homeland security, creating new, high-wage jobs here at home, and transforming Florida’s economic landscape.

The [Florida Semiconductor Engine](#) supports projects with a focus on advanced packaging, security, and microelectronics systems for extreme environments, which are critical for industries like aerospace, defense, and medical.

Our primary goal is to translate this innovative research into viable commercial applications. That’s why we’re fostering a strong, [statewide ecosystem](#) that unites our industry, educational institutions, government, and community so these groundbreaking inventions can be built and brought to market right here in our own backyard.





The [Florida Semiconductor Institute \(FSI\)](#) serves as the statewide hub for research, development, and workforce initiatives in semiconductor technologies. Our expertise encompasses emerging materials, devices, sensors, circuits, process development, microsystem integration, advanced packaging, and cybersecurity.

Stats at a Glance

\$73 billion

Florida's manufacturing sector, which includes semiconductor manufacturing, has seen substantial growth, contributing \$73 billion to the state's GDP in 2022, up from \$43.5 billion in 2014.

[Florida Jobs](#)

12,900 Jobs

The state provides approximately 12,900 jobs in the semiconductor sector, underscoring its role as a major employment hub in this field.

[The Capitolist](#)

Rank #5

Florida ranks #5 in the U.S. for semiconductor manufacturing jobs

[Florida Jobs](#)

Florida Semiconductor Institute at UF List of [Courses](#):

Undergraduate Coursework

Fabrication of Microelectronics
Physics of Microelectronics
Photonic Microelectronics
Designing Microelectronic Circuits
Design of Microelectronic Systems
Packaging Microelectronic Systems
Assurance of Microelectronics
Materials and Metrology for Microelectronics
Chemical Processes for Microelectronics
Microelectronics Supply Chains

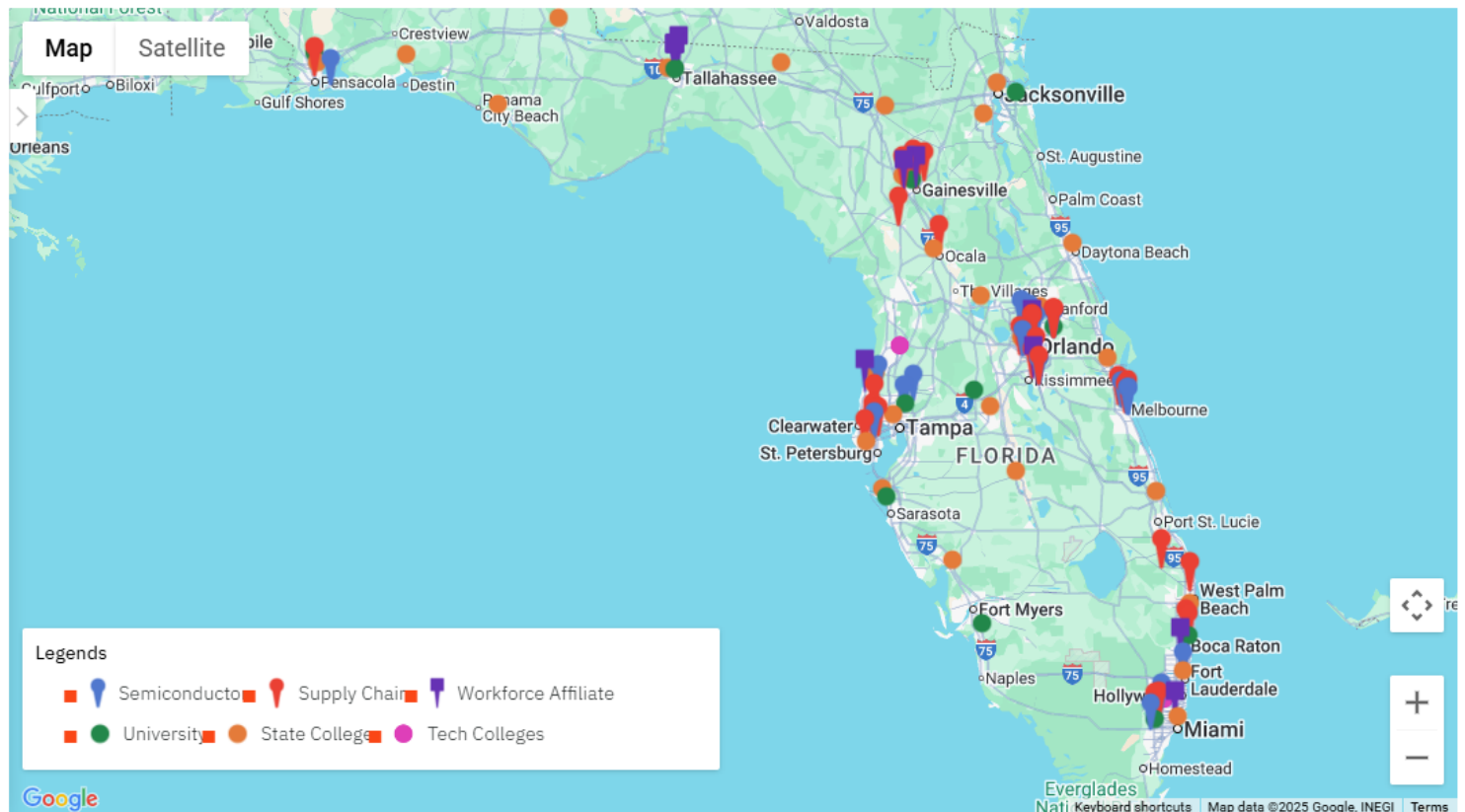
Graduate Coursework

Fabrication of Microelectronics
Physics of Microelectronics
Photonic Microelectronics
Design of Microelectronic Circuits
Design of Microelectronic Systems
Packaging of Microelectronic Systems
Assurance of Microelectronics
Materials and Metrology for Microelectronics
Chemical Processes and Technologies for Microelectronics

Florida Ecosystem Map: <https://fsi.institute.ufl.edu/florida-ecosystem-map/>

Powering Innovation in Florida

Florida boasts the third largest number of semiconductor sites, with concentrations in the Melbourne/Palm Bay area, Orlando, the Tampa/St. Petersburg area, and Gainesville. Additionally, just south of Orlando lies **NeoCity**, a 500-acre, high-tech semiconductor manufacturing campus situated in a Federal Opportunity Zone. Florida's semiconductor industry has significant ties to aerospace and defense.





NEOCITY

ideate > create > innovate without limits

NEOCITY IS A MASTER-PLANNED CAMPUS THAT WILL SERVE AS A GLOBAL CENTER OF ADVANCED RESEARCH

NeoCity is a technology district in Osceola County, Florida, inspired by an ethos of collaboration and designed to transform the way we ideate, create, and innovate. Here, burgeoning concepts will gestate into mature technologies, from smart sensors and photonics to software applications and process improvements in science and engineering.

500

AVAILABLE ACRES

NeoCity, Osceola County, FL

**Strategically positioned
for manufacturing
development (university
+ industry collaboration)**

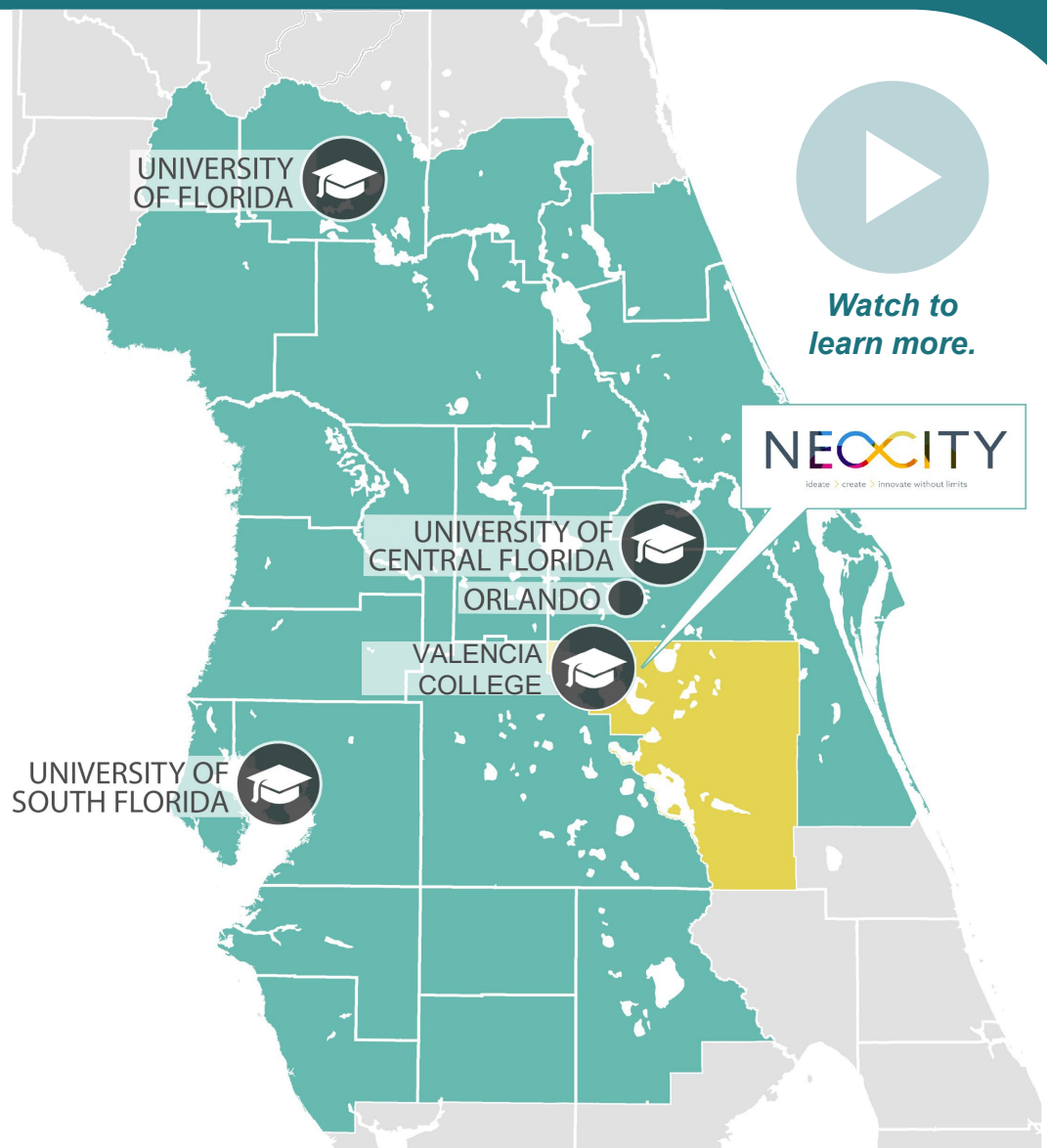
**Connected to world-class
institutions, amenities +
infrastructure**

**Home to one of the world's
most advanced sensors
research + development
lab/fab facility**

**100,000 square feet of
Class A office space**

**Pad ready sites
immediately available**

NeoCityfl.com



WHY NEOCITY?

NeoCity is in the center of one of the largest and most business-friendly states in the U.S. and fastest growing metros for STEM talent, with proximity to the Space Coast; world-class Orlando International Airport; one of the nation's best community colleges, Valencia College, and largest and top-ranked technical university, the University of Central Florida (UCF). Valencia College's more than 130 associate's degrees and certificate programs prepare students for immediate employment, while UCF's over 220 programs are of the highest academic caliber.

NeoCity provides your company with:

- ✓ The ideal position for partnership with innovative research universities
- ✓ Immediately available on-site R&D assets including the Center for NeoVation fab facility and imec Design Center
- ✓ Available and cost-effective land with room for growth
- ✓ Government, industry, and community leader support
- ✓ A robust STEM workforce and available workforce development opportunities, including the on-site STEM magnet school, NeoCity Academy, and Valencia College's Advanced Manufacturing Training Center and its Osceola Campus
- ✓ Proximity to a world-class international airport for business connectivity

Academic, community, and industry leaders have been working diligently to position NeoCity for a significant semiconductor design and manufacturing opportunity. These partners are ready and willing to support your company and its impact on the community, for years to come.

Designated Opportunity Zone

Site masterplan approvals in place

Expedited permitting available

Wetland permits issued and impacts are mitigated

Water reclaimed pod site



POSITIONED FOR PARTNERSHIP: NEOCITY

NeoCity is perfectly positioned for industry, government, and academic partnerships through the public-private partnership, BRIDG, which was created as the collaborative organization behind the development. BRIDG works to accelerate technology commercialization by providing solutions to bridge technology and capability gaps across multiple fields. By leveraging technology capabilities, processes, and background intellectual property, BRIDG provides open-innovation platforms at the economies of scale needed for cost-effective manufacturing, allowing partners to be globally competitive. In addition to BRIDG's close partnership with its founding visionaries—Osceola County, UCF and the Florida High Tech Corridor Council—BRIDG partners with private industry such as imec, Massey Services, L3 Harris, Siemens, Photon-X, and SkyWater Technology, the operator of the Center for NeoVation facility. Academic and research partners also include Arizona State, Florida International University and SUNY Polytechnic Institute, and national research organizations like the MIST Center.

Osceola County and UCF have years of extensive experience in receiving, implementing, and managing large federal grants. Through partnerships with BRIDG, UCF has collaborated to provide semiconductor R&D and production capabilities to industry, government, and academia while managing federal contracting with the U.S. Department of Defense on a regular basis. UCF supports the growing technology district NeoCity and the region's developed semiconductor ecosystem, including a technology foundry with trusted IP security, a world-leading R&D and innovation hub for nano and digital technologies, as well as information and communications technology companies, and key semiconductor end-users in defense, healthcare, finance, manufacturing, and agriculture.

UCF is also working closely with public-private partnerships to support investments in the semiconductor industry, actively advocating for funding the **CHIPS Act** and expanding and enacting the **FABS Act**.

On-Site Semiconductor R&D Partners



Located at NeoCity, the imec Design Center is a research hub focused on the R&D of **high-speed electronics and photonics solutions, including integrated circuit (IC) design research** for a broad set of semiconductor-based solutions. The Center provides prototyping and low-volume production service—also named imec IC-link—that provides the U.S. market low-cost access to advanced foundry services, helping entrepreneurs (industry and academia) to design innovative products and get them to market.



SkyWater Technology has a public-private partnership with Osceola County and BRIDG to accelerate access to domestic development and manufacturing services for **microelectronics advanced packaging**. SkyWater has established a subsidiary, SkyWater Florida, to assume operation of the Center for NeoVation fabrication facility to establish the foundation for the company's leading-edge advanced packaging technology services. SkyWater utilizes the facility to rapidly address emerging commercial and government agency needs for U.S.-sourced electronics.

Industry Partners

