



Space Florida is an Independent Special District of the State of Florida, created by Chapter 331, Part II, Florida Statutes, for the purposes of fostering the growth and development of a sustainable and world-leading space industry in Florida.

Space Florida Capabilities

- Arranging financing assistance and providing start up and relocation support
- Providing resources, retraining and access to experienced professional workforce
- Development of targeted infrastructure and facilities
- Research and Development opportunities that enable target industry growth

What can Space Florida do for you?

If you seek to do business within the Aerospace Industry, Space Florida can facilitate your growth or relocation to Florida.

We are a State entity empowered with rights to provide:

- Special purpose financing opportunities including off-balance sheet financing
- A gateway to non-traditional capital markets
- Leverage to unique business expansion and establishment tools through statewide partnerships with entities such as Enterprise Florida, Inc. (EFI), Workforce Florida, Visit Florida, and other economic development agencies
- Assistance working with NASA-Kennedy Space Center and 45th Space Wing
- Access and use of facilities at NASA/Kennedy Space Center, Cape Canaveral Air Force Station and more.
- Provide funding for spaceports infrastructure
- Space Florida maintains and updates the State of Florida Spaceport Master Plan

Exploration Park

Your Link to Launch - Located just outside of the gates of Kennedy Space Center, Exploration Park is on Florida's Space Coast - the only place in the world with a Quadramodal Transportation Hub featuring transportation by land, air, sea and space. For more information visit: www.explorationpark.com

Space Florida Works Across 10 Industry Sectors

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| * Space Transportation and Technologies Support Systems | * Agriculture, Climate and Environmental Monitoring | * Communications, Cybersecurity and Robotics |
| * Satellite Systems and Payloads | * Civil Protection and Emergency Management | * Adventure Tourism |
| * Ground and Operations Support Systems | * ISS and Human Life Sciences | * Clean Energy |
| * Advanced Materials and New Products | | |

SPACE FLORIDA FACILITY FACT SHEET

SPACE LIFE SCIENCES LABORATORY

WORLD-CLASS RESEARCH CAPABILITY:

Take advantage of one of the nation's most prominent scientific research facilities, known for its first-rate laboratory environments that have facilitated vital research for NASA's astronaut and International Space Station programs.



Space Florida, in partnership with NASA and the State of Florida, constructed and is now updating the Space Life Sciences Laboratory (SLSL) to meet the needs of our new customer base. We offer centralized services, core equipment, and payload processing capabilities along with excellent research and test laboratories. Our close proximity to the Cape Canaveral Spaceport supports our goal of developing a thriving intellectual community that advances microgravity research and space exploration with NASA and the commercial space industry.

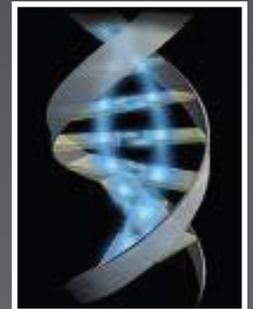
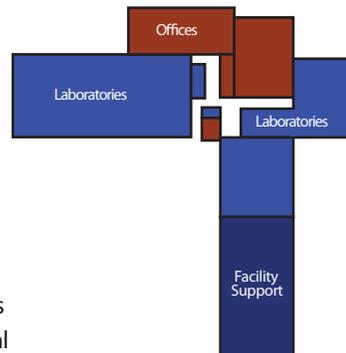
The SLSL is located in Exploration Park directly outside the security perimeter of NASA's Kennedy Space Center and about 40 miles east of Orlando. The SLSL is a 104,000 square foot facility dedicated to exploring science and engineering in support of the United States' Commercial Space Program.

Specifications:

- 104,000 total sq. ft.
- 30 Fully-Equipped Scientific Research Laboratories, 11 Hardware Laboratories
- Administrative/Office space
- Full environmental control
- 5 Conference Rooms (up to 100 person capacity)
- Building Services: Vacuum, compressed air, de-ionized water, steam, natural gas, high pressure nitrogen gas, carbon dioxide, electricity, sewage, chilled water
- Special Equipment: Controlled environment chambers, cold rooms, positive pressure tissue culture room, dark room, tunnel washer, environmental chambers
- Structure Type: Steel structure and concrete tilt-wall panels; field assembled metal panels; aluminum framed curtain wall with insulated low-e vision glass

Benefits:

- Safe, efficient, world-class experiment processing capabilities for customers who need to have their research fly in space.
- Unique involvement with the International Space Station for long-term, high impact, space-related research and development in Florida.
- Innovation and promotion of high-tech growth through collaboration of government, academia, and private industry.
- National recognition for excellence in research and technology development.
- Proximity to Kennedy Space Center, Cape Canaveral Air Force Station & Port Canaveral.
- Proximity to major airports, rail, highway and sea transportation



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FLORIDA: A GROWING FORCE IN THE INTERNATIONAL AEROSPACE MARKETPLACE

■ **Florida is the #2 state in aviation and aerospace in the nation¹** - virtually every major contractor from the U.S. and abroad has significant operations in the Sunshine State. Today, **30 of the top privately and publicly held commercial space companies tracked by NewSpace Global reside here.** The impact that space and aerospace companies have on Florida's economy is significant. Space Florida is working hard to ensure our state continues to shine as the international hub of this dynamic marketplace.

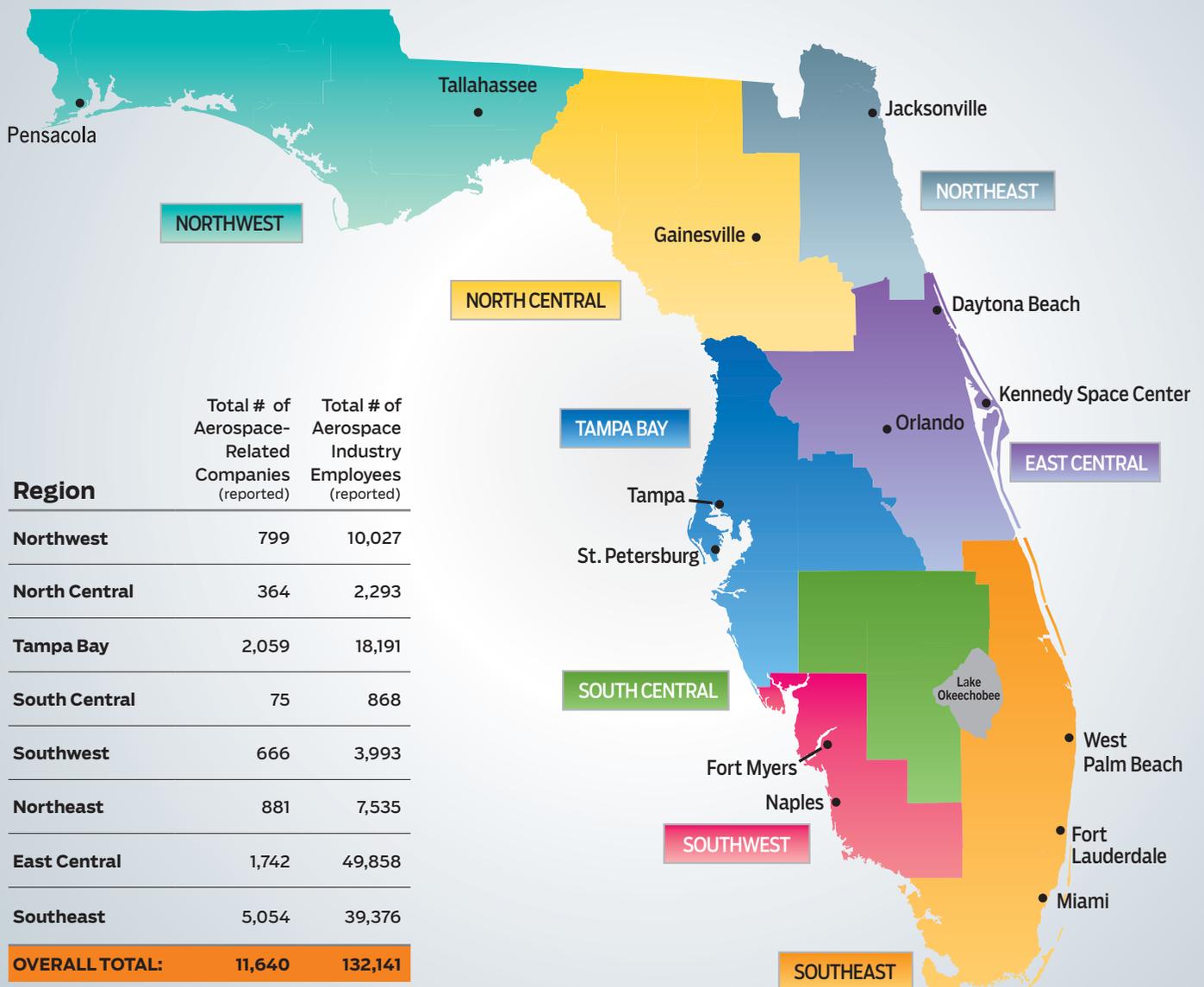


Chart source: FSU CEFA



As Florida's spaceport authority and aerospace development organization, **Space Florida** is committed to attracting and expanding the next generation of space industry businesses. www.spaceflorida.gov

Sources: ¹Enterprise Florida, map data Florida State University Center for Economic Forecasting and Analysis (FSU CEFA)



FLORIDA'S GROWING COMMERCIAL

SPACE FOOTPRINT

SPACE FLORIDA, the State of Florida's spaceport authority and aerospace development entity, has been aggressively pursuing commercial space and aerospace industry growth to ensure Florida remains at the forefront of the global aerospace marketplace, following the retirement of the U.S. Space Shuttle Program. There is great potential for the commercial space industry to provide significant jobs and economic impact to the state of Florida. Space Florida has executed a significant number of commercial projects in recent years that will leverage the state's 50+ years of expertise in space launch, proven infrastructure, workforce and supply chain assets.

Since the retirement of the shuttle program, **SPACE FLORIDA** deals have generated **577 jobs** in our state tied to commercial, civil and military aerospace initiatives, and an **additional 2,486 jobs** are anticipated in the next five years.



SPACE FLORIDA IS COMMITTED TO ATTRACTING AND EXPANDING NEXT-GENERATION SPACE INDUSTRY BUSINESSES.



For Immediate Release

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TWO SPACE FLORIDA ISS RESEARCH COMPETITION WINNERS TO FLY LIFE SCIENCES EXPERIMENTS ON March 16th SPACEX CRS-3 LAUNCH

KENNEDY SPACE CENTER (March 10, 2014) – Space Florida, the state’s spaceport authority and aerospace development organization, and NanoRacks LLC, a designer and manufacturer of microgravity research platforms, are pleased to announce that two of the seven winners of the Space Florida International Space Station (ISS) Research Competition are scheduled to launch their payloads to the ISS onboard SpaceX CRS-3 (Commercial Resupply Services, Mission 3), from Cape Canaveral Air Force Station on March 16, 2014. The two NanoLabs holding these payloads will fly inside the SpaceX Dragon capsule being launched on top of a Falcon 9 rocket, version 1.1.

The two projects heading to the ISS are:

1. HEART FLIES (Ohio State University, Stanford-Burnham Medical Research Institute, and NASA Ames Research Center)
2. Project MERCCURI (University of California-Davis, SCISTARTER.com and ScienceCheerleader.com)

The HEART FLIES (Heart Effect Analysis Research Team conducting Fly Investigations and Experiments in Spaceflight) payload will be studying the effects of spaceflight on the function, morphology and gene expression in fruit fly hearts. These results are part of an effort to understand the cardiovascular effects of spaceflight on humans and provide improved countermeasures and treatments for future astronauts. The research is being led by Dr. Peter H. Lee, Dr. Sharmila Bhattacharya, Dr. Rolf Bodmer and Dr. Karen Olorr.

The Project MERCCURI team (Microbial Ecology Research Combining Citizen & University Researchers) has been gathering microbial samples at a variety of public venues around the country including football and basketball games, as well as sites of historic interest. Microbes from those swab samples will be delivered to the ISS and the growth/behavior of these microbes will be compared with duplicate cultures in Earth-based labs. Additionally, crewmembers will take swap samples on the ISS, which will be analyzed to understand the microbial community present on Station. Leading scientists on this project include Dr. Jonathan Eisen, Dr. David Coil, Dr. Jenna Lang, Mr. Russell Neches, Ms. Wendy Brown, Ms. Darlene Cavalier and Mr. Mark Severance.

The Space Florida ISS Research Competition was designed to inspire innovation as well as provide unique research opportunities and access to the ISS. The remaining five (5) winners of the ISS Research Competition are scheduled for launch to the ISS on SpaceX CRS-4, currently scheduled for launch on July 25, 2014 from Cape Canaveral.

Winners of the Space Florida ISS Research Competition were selected by an independent panel of 14 judges representing a variety of NASA centers, renowned national academic institutions, payload developers and commercial companies with interest in microgravity research. Judges reviewed proposals based on their potential for developing ‘breakthroughs’ in basic research on materials, biology and the environment, as well as fostering a greater understanding of complex drugs and remedies to improve life on Earth.

“Working with these leading edge universities and research groups to help get their experiments to space is an exciting opportunity for us,” said Space Florida President Frank DiBello. “These individuals represent the future of microgravity research and help us to fulfill the true value of our orbiting National Lab on the ISS.”

"We are appreciative of Space Florida for providing this opportunity for others to participate in innovative space research," said NanoRacks Managing Director Jeff Manber. "The ISS Research Competition is a fantastic model for how space research can be set up quickly and efficiently. NanoRacks is pleased to partner with companies like Space Florida and do what we can to lower the costs and challenges for these teams to get to the Space Station."

To learn more about the winning projects, visit <http://www.spaceflorida.gov/iss-research-competition>.

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About Space Florida: Space Florida was created to strengthen Florida’s position as the global leader in aerospace research, investment, exploration and commerce. As Florida’s spaceport authority and aerospace development organization, we are committed to attracting and expanding the next generation of space industry businesses. With its highly trained workforce, proven infrastructure and unparalleled record of achievement, Florida is the ideal location for aerospace businesses to thrive – and Space Florida is the perfect partner to help them succeed. www.spaceflorida.gov

NanoRacks LLC was formed in 2009 to provide quality hardware and services for the U.S. National Laboratory onboard the International Space Station. The company operates the first commercial laboratory in low-earth orbit. Today, NR have onboard or manifested three research platforms, which can house plug and play NanoLabs using the CubeSat form factor. NR also offers a range of commercial research hardware allowing on-orbit analysis. The current signed customer pipeline of 100 payloads, including domestic and international educational institutions, research organizations and government organizations, has propelled NanoRacks into a leadership position in customer utilization in low-earth orbit. <http://nanoracks.com>



<http://www.spaceflorida.gov/iss-research-competition>

Winning Teams

SpaceX CRS-3		
<p>HEART FLIES</p> <p>USA</p>		<p>HEART FLIES: Heart Effect Analysis Research Team conducting Fly Investigations and Experiments in Spaceflight – a medical experiment to understand the effects of space travel on astronaut cardiovascular systems</p> <p>Dr. Peter H. U. Lee, The Ohio State University Wexner Medical Center and Stanford University, USA; Dr. Sharmila Bhattacharya, NASA Ames Research Center, USA; Dr. Rolf Bodmer and Dr. Karen Ocorr, Sanford-Burnham Medical Research Institute, USA</p> <p>Website: Division of Cardiac Surgery, The Ohio State University Wexner Medical Center Website: NASA Ames Research Center Website: Sanford-Burnham Medical Research Institute</p>
<p>Project MERCURI</p> <p><i>Microbial Ecology Research Combining Citizen & University Researchers on ISS</i></p>		<p>Comparison of the Growth Rate & DNA/RNA Quantitation of Microgravity Exposed Microbial Community Samples Collected by the Astronauts Onboard the International Space Station And by Citizen Scientists & Student Scientists at Public Venues</p> <p>Dr. Jonathan Eisen and Mr. Russell Neches, University of California-Davis, USA; Ms. Wendy Brown, University of California-Davis and SciStarter.com, USA; Ms. Darlene Cavalier and Mr. Mark Severance, SciStarter.com and ScienceCheerleader.com, USA; and Summer Williams, ScienceCheerleader.com, USA</p> <p><i>"If we want to engage the public in the microbial ecology of buildings, we need to find interesting buildings to work on. The International Space Station makes an interesting comparison with buildings on Earth for many reasons. Space Florida's ISS Research Competition is providing access to a unique venue to further this research." Dr. Jonathan Eisen, Professor, University of California Davis, Principle Investigator</i></p> <p><i>"This opportunity enables SciStarter and Science Cheerleader to cross-pollinate and activate related but distinct audiences in a national effort to engage the public in scientific research. We are thrilled to collaborate with Dr. Eisen and his team at UC Davis and we are grateful to Space Florida for making this possible." Darlene Cavalier, Founder, SciStarter and Science Cheerleader, Co-Principle Investigator</i></p> <p><i>"Space Florida's ISS Research Competition and NanoRacks are enabling broad participation in the ISS science mission by citizen scientists and student scientists. This level of public "hands on" engagement in space experiments was simply not possible prior to the ISS National Laboratory, for which Space Florida and NanoRacks have provided pioneering leadership." Mark Severance, "Space Guy", SciStarter and Science Cheerleader, Co-Principle Investigator</i></p> <p>Website: http://phylogenomics.wordpress.com Website: http://www.microbe.net Website: http://www.scistarter.com Website: http://www.sciencecheerleader.com Blog: http://phylogenomics.blogspot.com Blog: http://scistarter.com/blog Twitter: @phylogenomics @SciCheer @SciStarter You Tube: sciencecheerleader</p> <p>Media Contact: Claire LaBeaux claire@prclaire.com 925.337.0244</p>



<http://www.spaceflorida.gov/iss-research-competition>

SpaceX CRS-4		
<p>SABOL</p> <p>USA</p>		<p>Self-Assembly in Biology and the Origin of Life (SABOL) (A study into Alzheimer's)</p> <p>Drs. Sam Durrance, Daniel Kirk, and Hector Gutierrez, Florida Institute of Technology, Florida, USA</p> <p><i>"Through our project we seek to develop an improved understanding of the origin of life on our planet, increase our understanding of Alzheimer's disease and provide an opportunity to apply this new understanding for the betterment of humanity,"</i></p> <p>Website: Florida Institute of Technology</p>
<p>SyNRGE³</p> <p>Ireland & USA</p>		<p>Symbiotic Nodulation in a Reduced Gravity Environment (SyNRGE II)</p> <p>Dr. Gary Stutte, Limerick Institute of Technology, Ireland and Dr. Michael Roberts, CSS-Dynamac, Florida, USA</p> <p><i>"The opportunity afforded by the ISSRC to study plant-microbe interactions on the International Space Station is a great privilege for everyone at LIT and CSS-Dynamac. Being one of only eight research teams selected for this unique mission is validation for the interdisciplinary focus of our research program, our support of STEM education, and our shared goal to improve life on Earth. We look forward to developing a synergistic partnership with Space Florida and NanoRacks to improve crop yields by increasing our understanding of beneficial bacteria and plants."</i></p> <p>www.lit.ie/SyNRGE3 www.lit.ie www.css-dynamac.com www.linkedin.com/pub/gary-stutte/b/146/425 www.linkedin.com/pub/michael-roberts/2b/711/2b6</p>
<p>EGAHEP</p> <p>Germany</p>		<p>Egypt Against Hepatitis C Virus</p> <p>Mr. Akram Amin Abdellatif, German Aerospace Center – Flight Experiments Institute and Technical University of Munich, and Ms. Hanaa Gaber, Technical University of Munich, Germany School of Sciences & Engineering, The American University in Cairo</p> <p><i>"Our work addresses the research of Hepatitis C virus vaccine. The Hepatitis C is considered a major problem in our Egyptian society and we as an Egyptian team-are willing to use all our knowledge and strength in this national fight. We thank ISSRC which will help us to move many steps forward for our goal by achieving space developed Hepatitis C protein crystals."</i></p> <p>Website: German Aerospace Center Website: Technischen Universität München (TUM) Website: TUM-Institute of Virology Twitter: @AkramAminAhmed Twitter: #EGAHEP LinkedIn: Akram Amin Abdellatif</p>
<p>micro-gRx</p> <p>USA</p>		<p>Fluorescent Polarization in Microgravity: Validation of the M5 Microplate Reader Aboard the ISS</p> <p>Dr. Siobhan Malany and Dr. Steve Vasile, Sanford-Burnham Medical Research Institute at Lake Nona, Florida, USA</p> <p><i>"Our payload will measure fluorescence to gauge changes in the speed of molecular rotation of an antibody binding to a vitamin in microgravity using a microtiter plate. The ISSRC has given us a great opportunity to access a plate reader on the ISS, along with payload space aboard a SpaceX flight. In the future we hope to address more complicated experiments based on cellular processes in multiwell formats."</i></p> <p>Website: micro-gRx Twitter: @micro_gRx Facebook: micro-gRx</p>



<http://www.spaceflorida.gov/iss-research-competition>

SpaceX CRS-4		
<p>ISS Nanorocks</p> <p>USA</p>	 <p>The logo for the NANOROCKS experiment, featuring a circular image of a starry space scene with the text "NANOROCKS" and "UNIVERSITY OF CENTRAL FLORIDA" overlaid.</p>	<p>Collisional Evolution of Particles and Aggregates in Microgravity</p> <p>Dr. Josh Colwell, Dr. Adrienne Dove, and Dr. Todd Bradley, University of Central Florida, Florida, USA</p> <p><i>"The gravity of Earth swamps the kind of collisions of dust particles we are studying, making it difficult to get good data on the ground and even on parabolic flights. It's exciting to have this opportunity through the ISSRC to do this experiment on the space station where we don't have the same gravitational issues and we can observe these collisions over time, giving us information we cannot get on any other platform."</i></p> <p>Website: Center for Microgravity Research and Education Facebook: The Colwell Research Group YouTube: UCFMicrogravity</p>