



FLORIDA SPACE GRANT CONSORTIUM

Center For Space Education, Building M6-306, Room 7010
Mail Stop : FSGC, Kennedy Space Center, FL 32899
Tel # (321) 452-4301; Fax (321) 449-0739

Program Announcement for 2010-2011 Funding Summary

SPACE GRANT FELLOWSHIP PROGRAM

Purpose: To provide a prestigious instrument to reward and attract the best and the brightest of US citizens to space-related masters and doctoral studies and careers. To enhance cooperation among FSGC-affiliated university faculty and peers in industry, government and private laboratories.

Who may apply: Faculty from FSGC-affiliated universities are invited to nominate U. S. citizen students admitted to their masters or doctoral programs.

For: Each Fellow will receive an AY fellowship stipend of \$20,000 for full-time/doctoral study and \$12,000 for full time masters study. The award shall be for a period of up to three years for doctoral students and up to 2 years for Masters students. University cost-sharing or supplement is strongly encouraged, but not required. Ten percent of the evaluation will take into account the amount of matching involved. A total of 2% will be added to the reviewers evaluation score for every \$1,000 matching; with up to a maximum of 10%.

Application Deadline:

Notice of Intent: Notice-of-intent, including a generalized proposal summary of no more than 250 words, should be emailed to fsgc@mail.ucf.edu by March 15, 2010. Proposals are due by April 15, 2010.

Sign up and apply online: Sign up for an FSGC online account at www.floridaspacegrant.org and upload your proposal along with the letters, resume, transcripts and GRE scores (if applicable). You simply have to provide an e-mail address and create a username and password. Your original proposal, with the signature sheet, must be printed and submitted via regular mail to the FSGC office (address below), along with your resume, unofficial transcript, and letters of recommendation.

Proposals must be mailed to FSGC at the following address:

Dr. Jaydeep Mukherjee
Florida Space Grant Consortium,
Mail Code: FSGC,
Building: M6-306, Room 7010
Kennedy Space Center, Florida 32899

FSGC WWW Home page: <http://www.floridaspacegrant.org>

DIRECT ALL CORRESPONDENCE TO THE FSGC PROGRAM OFFICE:

FSGC Program Office

**Florida Space Grant Consortium
Center for Space Education
Building M6-306, Room 7010
Mail Stop: FSGC
Kennedy Space Center, FL 32899**

Dr. Jaydeep Mukherjee, FSGC Director

E-mail: fsgc@mail.ucf.edu

Program Announcement for 2010-2011 funding

SPACE GRANT FELLOWSHIP PROGRAM

PURPOSE, SCOPE, & TERMS OF THE AWARD

The Space Grant Fellowship Program provides a prestigious instrument to reward and attract the best and the brightest US citizens to space-related careers. The program is also designed to enhance cooperation among FSGC-affiliated university faculty and peers in industry, government and private laboratories. Accordingly, each Fellow will receive an Academic Year 2010-2011 fellowship stipend of \$20,000 for full-time doctoral students or \$12,000 for full-time masters students. The award may be renewable for 2 years for doctoral students or 1 year for masters students.

The award shall be for a period of up to three years for doctoral students and up to two years for masters students. A student may be nominated for a fellowship funded partially by the university and partially by NASA, or totally by NASA. The specifics of such potential shared funding must be set forth in detail in the budget request. The support from the university must be in cash, it can derive from any source (including research but not teaching assistantships), and it must be guaranteed by the university conditioned on satisfactory performance by the Fellow. Ten percent of the evaluation criteria will take into account the amount of cost sharing. A total of 2% will be added to the reviewers evaluation score for every \$1,000 matching; with up to a maximum of 10%.

The university may, at its discretion, waive all or part of the tuition. The cash value of waived tuition shall be stated in the budget. Full tuition waiver is strongly encouraged. During the academic year the fellow may accept no employment other than that stated in the above paragraph and shall be engaged in full time study.

Science Education Outreach

Florida Space Grant Fellows are expected to be involved in FSGC outreach activities. These activities will differ from campus to campus and a specific assignment will be made after consultation with the FSGC representative at that institute.

General Conditions

The FSGC is particularly interested in increasing the participation in graduate education and research of women, minority and disabled students. Nominations of students who are members of these groups are particularly solicited.

Throughout, "doctoral study" shall mean enrollment in a program leading to the award of a PhD, DSc, or equivalent and "masters study" shall mean enrollment in a program leading to the award of M.S, or equivalent.

The fellowship program funds earn no overhead.

Eligible Institutions: Awards may be made for masters or doctoral study at any of the FSGC-Affiliated Universities.

Eligible Individuals: Any US citizen, admitted to or enrolled in one of the Consortium-affiliated university's space-related masters or doctoral programs.

Eligible Fields: All nominees shall be enrolled in masters or doctoral programs with the intent of pursuing "space" research broadly defined to include aeronautics and astronautics, remote sensing, atmospheric sciences, and other fundamental sciences and technologies relying on and/or directly impacting space technological resources. Included within this definition are space science, earth observing science, space life sciences, space

medicine, space policy, law, and engineering, astronomy and astrophysics, space facilities and applications, and space education. **Preference will be given to projects dealing with NASA's priorities (Appendix A).**

Anticipated Budget: The Consortium anticipates the funding of **2 Doctoral fellowships and 1 Masters fellowship** for Academic Year 2010-11.

Nomination deadline: Notice-of-intent sent to fsgc@mail.ucf.edu by March. 15, 2010. Proposals due by April 15, 2010.

Anticipated announcement of Awards: June 2010.

Evaluation of Nominations: Appointment will be made upon recommendation of the fellowship panel. The panel will consider all customary measures of academic achievement and predictors of future academic success, relevance of the student's long term goals to a space-related career, the amount of cost sharing (Ten percent of the evaluation criteria will take into account the amount of matching funds), and relevance to NASA's priorities (see Appendix A). Nominees with Undergraduate GPAs less than 3.5 are not likely to be competitive. Participation by minority, female and disabled graduate students is encouraged. Universities are expected to make diligent affirmative action efforts to identify appropriate nominees of diverse backgrounds. Diversity of fellows will be considered in the award of grants when evaluations based on the above-stated criteria indicate substantively equal candidate merit.

NOMINATION REQUIREMENTS

All nominations shall be made by a Consortium-affiliated university on behalf of a student(s) enrolled in or admitted to a masters or doctoral degree program in an eligible field. Each Nomination package shall include:

1. The nominee's CV including a brief chronological summary of all higher educational study (including GPAs and Class Standing, if known) and professional employment. The CV should identify the nominee's citizenship and list all publications, honors, etc.
2. Essay outlining his/her educational and career goals and research interests (limited to 3 pages).
3. Letters of recommendation from the following:
 - a) Chairman of the department in which the student has been admitted for or is enrolled for masters or doctoral studies. This letter shall include a certification of the authenticity of supporting documents. It should identify the student's dissertation advisor, if known. The letter should identify the specific department and/or mentor, if possible, and describe the nature of the professional relation between the traineeship mentor and the academic department and/or student's (potential) dissertation advisor.
 - b) Two other professional letters of reference.
4. Copy of all higher education transcripts and GRE scores.
5. The nominee is encouraged to append any publications, special project reports, etc., related to a research effort that reflects his/her scholarly work and research potential. If the student has completed a thesis for a master's degree, a copy of the title page and abstract is required.
6. Submit budget for AY 2010-2011 ONLY. If this is a "Year 1" proposal, the NASA request shall be \leq \$12,000 for Masters students and \leq \$20,000 for doctoral students. The "Total Stipend" shall be \geq \$12,000 for masters students and \geq \$20,000 for doctoral students. If university cost-share, supplement, or fee waiver is proposed include a brief narrative specifying quantitative details.

Proposers are requested to provide a notice-of-intent to FSGC, including a generalized proposal summary of no more than 250 words, to fsgc@mail.ucf.edu by March 15, 2010

Application Procedure: You must also sign up for an FSGC online account at www.floridaspacegrant.org to upload your proposal. You simply have to provide an e-mail address and create a username and password. After you have signed up for an FSGC account, please upload your proposal, resume, transcripts, GRE scores (iff applicable) and the letters of recommendation. If there is an issue with submitting the letters on line, please mail or email the letters to the FSGC office. Your original proposal must be printed and submitted to the FSGC office, address below, along with your resume, unofficial transcript, and letters of recommendation. The proposal must be received by April 15, 2010.

The original signed proposal must be mailed to FSGC at the following address:

Dr. Jaydeep Mukherjee
Florida Space Grant Consortium,
Mail Code: FSGC,
Building: M6-306, Room 7010
Kennedy Space Center, Florida 32899
Email: fsgc@mail.ucf.edu

Performance Standards and Reporting Requirements: All Fellows are expected to maintain a minimum cumulative GPA of 3.5 with acceptable progress towards the degree. For the continuation of the fellowship, the Chairman of the student's Supervisory Committee, through the Department Chairperson, must submit an annual letter of support and justification including a progress report on the student's research.

Annual Reports covering the immediately preceding academic year shall be submitted by October 15th. For newly appointed Fellows in 2010, the 2010 Annual Report need only confirm that the Fellow is enrolled for AY 2010-2011.

All publications should acknowledge the support of NASA through the Florida Space Grant Consortium. Copies of all publications resulting from the grant should be sent to the FSGC.

Award Renewals: Florida Space Grant Fellows whose awards commenced in 2008 and 2009 will be governed by the fiscal terms of the RFP under which the original award was made. The Fellows will be contacted by the FSGC office early Summer of 2010. 2008 and 2009 Fellows should submit budget signature sheet and progress report only. The progress report should summarize both AY and Summer externship activities, if any.

Presentation of research: For approved projects, the grant program sponsors may coordinate with Principal Investigators to submit their final reports or abstracts for presentation and publication at upcoming Space Congress events and other space-related conferences. FSGC may establish a special seminar or conference where all funded research will be reported.

**A Proposal
submitted to
Florida Space Grant Consortium
AY 2010-2011**

Program Area: SPACE GRANT FELLOWSHIP PROGRAM (SGFP)

Nominator's Name and Email: _____

Nominees's Name: _____

Department/University: _____

Address: _____

Nominees's Email: _____ Phone: _____

Budget Request: [See page 2, ¶2 and page 3, item 6 for instructions.]

<u>STIPEND REQUEST</u>	<u>NASA</u>	<u>Institution</u>	<u>TOTAL</u>
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Complete appropriate year

- Year 1 (new fellows)
- Year 2 (2009 Fellows only)
- Year 3 (2008 Fellows only)

Beginning Date: _____ Ending Date: _____

(Signature) Nominator

(Signature) Department Head

Name: _____ Name: _____

Title: _____ Title: _____

Date: _____ Date: _____

(Signature) College Official

(Signature) University Official*

Name: _____ Name: _____

Title: _____ Title: _____

Date: _____ Date: _____

The University certifies the authenticity of the supporting documents and of the commitment to the institutional fund matching for the fellowship.

PLEASE COMPLETE THE NSF FORM 1225 (1/90) ATTACHED.

*The University certifies that the grant funds will not supplant funds intended for the recipient research program, that all funds will be translated into increased programmatic support.

INFORMATION ABOUT PRINCIPAL INVESTIGATORS/PROJECT DIRECTORS

Submit only ONE copy of this form with your proposal. Attach it on top of the cover page of the copy of your proposal that bears the original signatures. Leave the back of the page blank. Do not include this form with any of the other copies of your proposal, as this may compromise the confidentiality of the information.

Please check the appropriate answers to each question for all principal investigator(s)/project director(s) listed on the cover page, using the same order in which they were listed there:

	Nominator/ University Mentor	Nominee	Externship Mentor (if applicable)		
1. Is this person					
Female	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Male	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is this person a					
U.S Citizen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanent Resident	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other non-U.S. Citizen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Which one of these categories best describes this person's ethnic/racial status? (If more than one category applies, use the category that most closely reflects the person's recognition in the community.)					
American Indian or Alaskan Native	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asian	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Black, not of Hispanic Origin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hispanic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pacific Islander	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
White, not of Hispanic Origin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does this person have a disability* which limits a major life activity?					
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check here if the person does not wish to provide some or all of the above information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Required: Check here if this person is currently serving (or has previously served) as PI, Co-PI or PD on any Federally funded project.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AMERICAN INDIAN OR ALASKAN NATIVE: A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

ASIAN: A person having origins in any of the original peoples of East Asia, Southeast Asia, or the Indian subcontinent. This area includes for example, China, India, Indonesia, Japan, Korea and Vietnam.

BLACK, NOT OF HISPANIC ORIGIN: A person having origins in any of the black racial groups of Africa.

HISPANIC: A person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.

PACIFIC ISLANDER: A person having origins in any of the original peoples of Hawaii; the U.S. Pacific territories of Guam, American Samoa, and the Northern Marianas; the U.S. Trust Territory or Palau; the islands of Micronesia; or the Philippines.

WHITE, NOT OF HISPANIC ORIGIN: A person having origins in any of the original peoples of Europe, North Africa, or the Middle East.

*DISABLED: A person having a physical or mental impairment that substantially limits one or more major life activities; one who has a record of such impairment; or who is regarded as having such an impairment.

WHY THIS INFORMATION IS BEING REQUESTED:

The Federal Government and the FSGC have a continuing commitment to monitor the operation of its review and award processes to identify and address any inequities based on gender, race, ethnicity, or disability of the proposed principle investigators/project directors and co-principle investigators. To gather the information needed for this important task, you should submit a single copy of this form with each proposal; however, submission of the requested information is not mandatory and is not a precondition of award. Any individual not wishing to submit the information should check the box provided for this purpose. (The exception is information about previous Federal support, the last question above.)

Information from this form will be retained by the FSGC as an integral part of their Privacy Act Systems of Records in accordance with the Privacy Act of 1974. These are confidential files accessible only to appropriate personnel and will be treated as confidential to the extent permitted by law. Data submitted will be used in accordance with criteria established by the respective Federal agency for awarding grants for research and education, and in response to Public Law 99-383 and 42 USC 1885c.

NSF Form 1225(1/90) Adapted by Florida Space Grant Consortium (11/93) – SGFP

Appendix A. Strategic Framework for NASA

I. NASA Mission Directorates

NASA's Mission *to pioneer the future in space exploration, scientific discovery, and aeronautics research*, draws support from four Mission Directorates, each with a specific responsibility.

- The Aeronautics Research Mission Directorate (ARMD) conducts vital research to make air travel more efficient, safe, green, and to uncover leading-edge solutions for the Next Generation Air Transportation System (NextGen) in the United States. ARMD's fundamental research in traditional aeronautical disciplines and emerging disciplines helps address substantial noise, emissions, efficiency, performance and safety challenges that must be met in order to design vehicles that can operate in the NextGen.

(<http://www.aeronautics.nasa.gov>)

- The Exploration Systems Mission Directorate (ESMD) Agency role is to develop a sustained human presence on the moon; to promote exploration, commerce, and U.S. preeminence in space; and to serve as a stepping-stone for the future exploration of Mars and other destinations. ESMD establishes the NASA exploration research and technology development agenda. Specifically, ESMD develops capabilities and supporting research and technology that will enable sustained and affordable human and robotic exploration. It also works to ensure the health and performance of crews during long-duration space exploration. In the near-term, ESMD does this by developing robotic precursor missions, human transportation elements, and life-support systems. (<http://www.exploration.nasa.gov>)

- The Science Mission Directorate (SMD) leads the Agency in four areas of research: Earth Science, Heliophysics, Planetary Science, and Astrophysics. SMD works closely with the broader scientific community, considers national initiatives, and uses the results of National Research Council studies to define a set of "Big Questions" in each of these four research areas. These questions, in turn, fuel mission priorities and the SMD research agenda. The SMD also sponsors research that both enables, and is enabled by, NASA's exploration activities. SMD has a portfolio of Education and Public Outreach projects that are connected to its research efforts. (<http://nasascience.nasa.gov>)

- The Space Operations Mission Directorate (SOMD) provides the Agency with leadership and management of NASA space operations related to human exploration in and beyond low-Earth orbit. SOMD enables current space exploration in low earth orbit through its Space Shuttle and International Space Station Programs. SOMD is also responsible for Agency leadership and management of NASA space operations related to Launch Services, Space Transportation, and Space Communications in support of both human and robotic exploration programs. (<http://www.spaceoperations.nasa.gov>)

II. NASA Research Areas of Interest

NASA EPSCoR research priorities are defined by the Mission Directorates—Aeronautics Research, Exploration Systems, Science, and Space Operations. Each Mission Directorate covers a major area of the Agency's research and technology development efforts.

Information about current NASA research solicitations can be found on NSPIRES at <http://nspires.nasaprs.com> (select "Solicitations" and then "Open Solicitations").

Research priorities for each of the Mission Directorates can be found at the following locations:

Aeronautics Research Mission Directorate (ARMD)

Researchers responding to the ARMD should propose research that is aligned with one or more of the ARMD programs. Proposers are directed to the following:

- ARMD Programs: <http://www.aeronautics.nasa.gov/programs.htm>
- Research Opportunities in Aeronautics (ROA) <http://nspires.nasaprs.com> (select "Solicitations" and then "Open Solicitations")

Exploration Systems Mission Directorate (ESMD)

General priorities of ESMD can be found at <http://www.nasa.gov/directorates/esmd>.

Science Research Interests:

- Research and Technology Development to Support Crew Health and Performance in Space Exploration Missions, NASA Human Research Program and The National Space Biomedical Research Institute

<http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=154870/NNJ08ZSA002N.pdf>

- Ground-Based Studies in Space Radiobiology, NASA Space Radiation Program Element
- <http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=179575/NNJ09ZSA001N.pdf>

Engineering Research Interests:

- Spacecraft: Guidance, navigation and control; thermal; electrical; structures; software; avionics; displays; high speed re-entry; modeling; power systems; interoperability/commonality; advanced spacecraft materials; crew/vehicle health monitoring; life support.

- Propulsion: Propulsion methods that will utilize materials found on the moon or Mars, “green” propellants, on-orbit propellant storage, motors, testing, fuels, manufacturing, soft landing, throttle-able propellants, high performance, and descent.

- Lunar and Planetary Surface Systems: Precision landing hardware, software, in-situ resource utilization (ISRU), navigation systems, extended surface operations, robotics, (specifically environmental scouting prior to human arrival, outpost maintenance with and without humans present, and assist astronaut with geologic exploration) environmental analysis, radiation protection, spacesuits, life support, power systems. ESMD also has an extensive program to develop and test models of lunar surface systems in realistic analog environments on Earth. Information on the Analog Tests is available on the Web by visiting: <http://www.nasa.gov/exploration/home/analogs.html>.

- Ground Operations: Pre-launch, launch, mission operations, command and control software systems, communications, landing and recovery.

Science Mission Directorate (SMD)

Detailed information on SMD research priorities is available at the following URLs:

- NASA Science Plan 2007: <http://science.hq.nasa.gov/strategy/> and http://nasascience.nasa.gov/about-us/science-strategy/Science_Plan_07.pdf.
- Research Opportunities in Space and Earth Science (ROSES): <http://nspires.nasaprs.com/external/>. Select “Solicitations”, “Open Solicitations”, and then “Research Opportunities in Space and Earth Sciences (ROSES) – 2009”.
- In addition, proposer can visit the following URL: <http://nasascience.nasa.gov/bigquestions> which summarizes the research questions across all four SMD divisions and links to their respective 2007-2016 science strategy.

Space Operations Mission Directorate (SOMD)

The primary research and technology development areas in SOMD support launch vehicles, space communications, and the International Space Station. Examples of research and technology development areas (and the associated lead NASA Center) with great potential include:

- Space Communications and Navigation
 - Coding, Modulation, and Compression (Goddard Spaceflight Center (GSFC))
 - Precision Spacecraft and Lunar/Planetary Surface Navigation and Tracking (GSFC)

- Communication for Space-Based Range (GSFC)
- Antenna Technology (Glenn Research Center (GRC))
- Reconfigurable/Reprogrammable Communication Systems (GRC)
- Miniaturized Digital EVA Radio (Johnson Space Center (JSC))
- Transformational Communications Technology (GRC)
- Long Range Optical Telecommunications (Jet Propulsion Laboratory (JPL))
- Long Range Space RF Telecommunications (JPL)
- Surface Networks and Orbit Access Links (GRC)
- Software for Space Communications Infrastructure Operations (JPL)
- TDRS transponders for launch vehicle applications that support space communication and launch services (GRC)
- Space Transportation
 - Optical Tracking and Image Analysis (Kennedy Space Center (KSC))
 - Space Transportation Propulsion System and Test Facility Requirements and Instrumentation (Stennis Space Center (SSC))
 - Automated Collection and Transfer of Launch Range Surveillance/Intrusion Data (KSC)
 - Technology tools to assess secondary payload capability with launch vehicles (KSC)
 - Spacecraft Charging/Plasma Interactions (Environment definition & arcing mitigation) ((Marshall Space Flight Center (MSFC))
- Processing and Operations
 - Crew Health and Safety Including Medical Operations (JSC)
 - In-helmet Speech Audio Systems and Technologies (GRC)
 - Vehicle Integration and Ground Processing (KSC)
 - Mission Operations (Ames Research Center (ARC))
 - Portable Life Support Systems (JSC)
 - Pressure Garments and Gloves (JSC)
 - Air Revitalization Technologies (ARC)
 - In-Space Waste Processing Technologies (JSC)
 - Cryogenic Fluids Management Systems (GRC)

FSGC Affiliates and Contacts

Universities and Colleges

Bethune-Cookman University (Sunil David)

Embry-Riddle Aeronautical University (Michael Hickey)

Eckerd College (Joel Thompson)

Florida Atlantic University (Mohammed Ilyas)

Florida Community Colleges (Larry Harvey)

Florida Gulf Coast University (Michael Fauerbach)

Florida Institute of Technology (Terry Oswalt)

Florida International University (Berrin Tansel)

Florida State University (Norman Thagard)

Florida A&M University (Charles Weatherford)

University of Central Florida (Larry Chew)

University of Florida (Jamie Foster)

University of Miami (Qingda Yang)

University of North Florida (Sonja Avery)

University of South Florida (Paul Sanberg)

University of West Florida (Leonard W. ter Haar)

Other Organizations

Astronauts Memorial Foundation (Gene Tavares)

Kennedy Space Center (Benita Desuza)

Orlando Science Center (Kellon Nixon)

Space Florida (Tony Gannon)