



# NASA FLORIDA SPACE GRANT CONSORTIUM

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## FY 2010-11 Fact Sheet

### PARTICIPANTS

- 20 Affiliates Statewide comprising
  - ◆ 16 Universities & Colleges
  - ◆ Lead Institution—UCF
  - ◆ Astronaut Memorial Foundation
  - ◆ Space Florida
  - ◆ Kennedy Space Center
  - ◆ Orlando Science Center

### ACCOMPLISHMENTS

#### Research

- ◆ Joint Grant Program (sponsored by FSGC and Space Florida)
  - Spaceport Technology*
  - Space-Based Research & Payload Development*
- ◆ \$ 345K in funded projects

#### Education

- ◆ 8 college and university programs
  - Graduate Fellowships*
  - Kennedy Space Center Internships*
  - Florida Satellite Competition*
  - Hybrid Rocket Competition*
  - Undergraduate Academy for students*
  - NASA Academy*
  - Senior Design Projects*
  - Microgravity and other competitions*
- ◆ 3 precollege programs
  - Space Education & Training Program*
  - Pre-Service and In-service Teacher workshops*
  - Florida Engineering Education Conference*

#### Informal Education

- ◆ 4 Programs
  - Radio JOVE and UFRO Online*
  - Orlando Science Center Fun Nights*
  - Starshine at East Gainesville*
  - USA Science and Engineering Fair*

### STUDENT AWARDS

- ◆ 45 undergraduate scholarships
- ◆ 6 graduate fellowships
- ◆ 20 research students
- ◆ 196 undergraduates involved in student collaborative projects
- ◆ 52 school teachers
- ◆ Engaged over 800 Florida citizens through informal education programs

### SOURCES OF FUNDS

- ◆ \$ 845K in NASA funds
- ◆ \$ 610K in Matching Funds

### STUDENT QUOTES

- ◆ It allowed me to network with a diverse group of people, within my field and in related fields. (Stacy Ann Irwin, 2010 Space Grant Research Award, Florida Institute of Technology - Graduate Research Assistant )
- ◆ Life has been great and I have been extremely busy with my new endeavors. It's hard not think back on the support I received from FSGC over the years, the support that has most certainly got me to where I am today. (Jason Dunn, 2010 FSGC scholar, UCF )
- ◆ The valued impact of this opportunity on my career goals cannot be put into words. It made the difference between just another graduate project, and being nationally recognized (Angelo Karavolos , 2010 Space Grant Fellowship—FSU )

### NASA Florida Space Grant Consortium

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A NASA sponsored program administered by the University of Central Florida

## Student Collaborative Projects

### I. Undergraduate Academy

- ◆ Joint program between FSGC and Space Florida and sponsored Lockheed Martin
- ◆ 1 week internship for undergraduate students in Florida
- ◆ Designed and constructed a meteorological balloon instrument payload and launch from Cape Canaveral
- ◆ 48 students from 10 universities and 1 community college participated in 3 undergraduate workshops.



### II. Senior Design Projects and other Competitions

- ◆ Supporting 30 students from 3 universities in senior design projects and competitions.
- ◆ Supporting 32 students in 5 student teams from 3 universities for participating in the University Space Launch Initiative program, Moonbuggy Competition, and Microgravity Flights



### III. Rocket Competition

The objective of the competition is to design and build a hybrid powered rocket. The competition has two categories: the first category is to reach the maximum altitude and the second is to fly the rocket closest to 2000 feet in altitude.

- Sponsored by the Florida Space Grant Consortium, Florida Space Institute, and the Northeast Florida Association of Rocketry

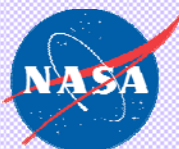
- 7 teams from 5 universities and 1 community college
- 86 undergraduate students

### IV. UNESCOSAT

Students from UCF and FIT are developing 2 remote sensing payloads, under the United Nations Satellite Program. These payloads will be launched on a Russian satellite in December of 2011.

### V. Squids in Space

UF researcher along with students from UF and Merritt Island High School are assessing the impact of microgravity on beneficial bacteria associated with the normal development of animal tissues. The experiment will be flown to the International Space Station on the shuttle flight STS-134.



To pioneer the future in space exploration, scientific discovery, and aeronautics research

THE NASA VISION