



FLORIDA SPACE GRANT CONSORTIUM

Director : Dr. Jaydeep Mukherjee
Associate Director: Dr. Penny Haskins
Assistant Director: Ms. Sreela Mallick
FY 2008-09 Fact Sheet



PARTICIPANTS

- 21 Affiliates Statewide comprising**
- ◆ 16 Universities & Colleges
 - ◆ Astronaut Memorial Foundation
 - ◆ Space Florida
 - ◆ Higher Education Consortium for Math & Sciences
 - ◆ Kennedy Space Center
 - ◆ Orlando Science Center

ACCOMPLISHMENTS

Research

- ◆ **Joint Grant Program (sponsored by FSGC and Space Florida)**
Spaceport Technology
Space-Based Research & Payload Development

- ◆ **\$ 353K in funded proposals**

Education

- ◆ **7 college and university programs**
Graduate Fellowships
Kennedy Space Center Internships
Florida High Tech Corridor Internships
Florida University Satellite Design Competition
Hybrid Rocket Competition
Undergraduate Academy for students
NASA Academy

- ◆ **5 precollege programs**

Space Education & Training Program
Teacher workshops
Pre-Service Teacher Institute
Overseas Educators Workshop
Academy for middle school teachers and students

Informal Education

- ◆ **3 Programs**

Radio JOVE
UFRO Online
Orlando Science Center Fun Nights

STUDENT AWARDS

- ◆ 76 Undergraduate awards
- ◆ 5 Graduate Fellowships
- ◆ 267 undergraduates involved in student collaborative projects

SOURCES OF FUNDS

\$ 1150K in NASA funds
\$ 576K in Matching Funds

STUDENT QUOTES

- ◆ With the help of your program, I was offered a part time job at Kennedy Space Center as a contract hire working with The Boeing Company as a Systems Engineering Technician—Cindy Judd
- ◆ Participating in the Florida Space Academy helped me become a better person by interacting with engineering professionals in hands on activities—Jose Luis Rodriguez Jr
- ◆ My name is Charlie Groom and I was in your undergraduate educational program. Now I have an awesome job working for United Space Alliance. I would not have had this Great job if it wasn't for your program inspiring me to get involved with the (awesome!) space program.—Charlie Groom
- ◆ If we think that we are going to go to Mars sometime in the future, we must start being realistic about the actual ways people might live there,” said Dr. Ray Bucklin, professor of at the University of Florida and a Principal Investigator on a research project funded by FSGC and Space Florida. “This grant allows us to get our feet wet in this critical area of research.

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 Florida Space Grant Consortium and Space Florida
- ◆ 1 week internship for undergraduate students in Florida
- ◆ Designed and constructed a meteorological balloon instrument payload and launch from Cape Canaveral
- ◆ 49 students from 9 universities and 2 community colleges participated in 4 undergraduate workshops.



II. Google Lunar X PRIZE

- ◆ A group of students from the University of Central Florida (UCF) and professionals in the Central Florida area have teamed up to compete in the Google Lunar X PRIZE. The Google Lunar X PRIZE is a \$30 million international competition to safely land a robot on the surface of the Moon, travel 500 meters over the lunar surface, and send images and data back to the Earth .
- ◆ The team is led by Ruben Nunez, currently pursuing a Bachelor of Science degree in Aerospace Engineering at UCF. The Project is called Omega Envoy . This is the only team from Florida.
- ◆ FSGC is supporting this project by sponsoring 2 senior design classes at UCF.
- ◆ One of the projects is the design a system of locomotion for a prototype Lunar Rover to compete in the Google Lunar XPRIZE while the other is a Lunar Lander project .

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, Space Florida and the Northeast Florida Association of Rocketry

- 6 teams from 3 universities and 1 community college
- 63 undergraduate students

IV. FUNSAT

The FUNSAT (Florida University SATellite) is a pico-satellite with a mass of 1 Kg and the size of 10 x 10 x 10 cm³. 54 students from 5 universities currently participating in the competition.

ERAU

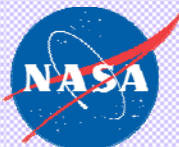
-Completed Flight Model and ready to launch UF

-AIAA Small Satellite Student Paper Competition - 4th Place (\$3,000)

-Boost students' interest in space engineering - Class & Satellite Team

-Development of a de-orbiting technology UCF

- Interdisciplinary Sr. Design Class: EE, CE, ME, and AE



*To understand and protect our home planet,
To explore the universe and search for life,
To inspire the next generation of explorers as only NASA can*

THE NASA MISSION