



## Description

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The Special Awards Program is a vital component of the State Science and Engineering Fair (SSEF) of Florida. These awards recognize talented youth for their dedication and commitment to scientific research and inspire young people by giving them confidence in their abilities and encouraging their study of science.

The Special Awards Program depends on the generosity of Donors. Donors include individuals at the local, state, and national levels,

businesses, industries, institutions, government agencies, professional societies, technical societies, and other organizations.

The Florida Foundation for Future Scientists (FFFS), which administers the SSEF, recognizes all Special Awards Donors through statewide news media, FFFS newsletters, the SSEF Program Book, and other FFFS publications with wide distribution throughout Florida.

## Donation Process

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To donate Special Awards simply complete the Junior and/or Senior Special Awards Donor Form(s). The form(s) must be received by **November 23, 2004**; however, the actual award must be received in the FFFS office no later than **January 30, 2005**.

It is important for Donors to give detailed specifications for each Special Award, such as whether it should be designated for a project in the Senior Section (Grades 9-12), or the Junior Section (Grades 6-8). Donors are also asked to specify whether their award should go to a student whose project is in a particular

Category or subject area. Detailed information on the various Categories is enclosed.

Donors may also request that their award be used wherever needed. This allows the FFFS to maintain a balance of awards in each Category. Please note: Awards cannot be restricted to a project from a particular Regional Science and Engineering Fair.

Donors are encouraged to attend the SSEF and judge their own awards.

## Awards

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Special Award certificates may be accompanied by cash awards, or may consist of gifts or grants.

If the Donor chooses to give a cash award and stipulates that it be used toward the winner's college education, the FFFS will list it as

a Scholarship Award. Summer employment and internship offers are listed as Opportunity Awards. For more information on Scholarship and Opportunity Awards, contact Saioa de Urquiza at the FFFS office.

## Sponsors, Hosts, and Administrators

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### Anticipated 2005 SSEF Principal Sponsors:

University of Central Florida

Florida Foundation for Future Scientists

Agere Systems

National Aeronautics and Space Administration

Publix Super Markets Charities

State of Florida Department of Education

*The FFFS is dedicated to the promotion of excellence in science and engineering education. The FFFS is designated as a 501(c)(3) non-profit organization by the Internal Revenue Service #59-6155014.*

The annual SSEF is administered by the FFFS at the University for Central Florida. Inquiries about the SSEF may be made by contacting:

**Saioa de Urquiza, Program Coordinator**  
Florida Foundation for Future Scientists

University of Central Florida  
PO Box 162993

Orlando, FL 32816-2993

Phone: (407) 823-4347

Fax: (407) 823-6334

E-mail: [surquiza@mail.ucf.edu](mailto:sarquiza@mail.ucf.edu)

*We are seeking additional principal sponsors. Please contact us for more information on how you can sponsor the State Science & Engineering Fair of Florida*

# State Science and Engineering Fair Structure

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The SSEF structure will help Donors select their award criteria. Each project at the SSEF is assigned to one of these Categories. Projects are further divided into two divisions: Biological Sciences and Physical Sciences, with the following fourteen Categories:

## Biological Sciences

BE	Behavioral and Social Sciences
BI	Biochemistry
BO	Botany
ME	Medicine and Health
MI	Microbiology
ZO	Zoology

## Physical Sciences

CH	Chemistry
CO	Computer Science
EA	Earth and Space Sciences
EN	Engineering
EV	Environmental Sciences
MA	Mathematics
PH	Physics

TM Team Projects (Cooperative projects by two or three students)

## Clarification of Categories

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### Behavioral and Social Sciences

Psychology, sociology, anthropology, archeology, ethology, ethnology, linguistics, animal behavior (learned or instinctive), learning, perception, urban problems, reading problems, public opinion surveys, educational testing, *etc.*

### Biochemistry

Molecular biology, molecular genetics, enzymes, photosynthesis, blood chemistry, protein chemistry, food chemistry, hormones, *etc.*

### Botany

Agriculture, agronomy, horticulture, forestry, plant taxonomy, plant physiology, plant pathology, plant genetics, hydroponics, algae, *etc.*

### Chemistry

Physical, organic, chemistry (other than biochemistry), inorganic, materials, plastics, fuels, pesticides, metallurgy, soil chemistry, *etc.*

### Computer Science

New developments in software or hardware, information systems, computer systems organizations, computer methodologies and data (including structures, encryption, coding and information theory), *etc.*

### Earth and Space Sciences

Geology, geophysics, physical oceanography, meteorology, atmospheric physics, seismology, petroleum geology, geography, speleology, mineralogy, topography, optical astronomy, radio astronomy, astrophysics, *etc.*

### Engineering

Civil, mechanical, aeronautical, chemical, electrical, photographic, sound, automotive, marine, heating and refrigeration, transportation, environmental engineering, *etc.* Power transmission and generation, electronics, communications, architecture, bioengineering, lasers, *etc.*

### Environmental Sciences

Pollution: air, water, and land; pollution sources and their control; waste disposal; impact studies; environmental alteration (heat, light, irrigation, erosion), ecology, *etc.*

### Mathematics

Calculus, geometry, abstract algebra, number theory, statistics, complex analysis, probability, topology, logic, operations research, and other topics in pure and applied mathematics, computer programs and languages, *etc.*

### Medicine and Health

Medicine, dentistry, pharmacology, veterinary medicine, pathology, ophthalmology, nutrition, sanitation, pediatrics, dermatology, allergies, speech and hearing, *etc.*

### Microbiology

Bacteriology, virology, protozoology, fungi, bacteria, genetics, yeast, *etc.*

### Physics

Solid state, optics, acoustics, particle, nuclear, atomic, plasma, superconductivity, fluid and gas dynamics, thermodynamics, semiconductors, magnetism, quantum mechanics, biophysics, *etc.*

### Zoology

Animal genetics, ornithology, entomology, ichthyology, herpetology, animal ecology, anatomy, paleontology, cellular physiology, circadian rhythms, animal husbandry, cytology, histology, animal physiology, invertebrate neurophysiology, *etc.*

### Team Projects

Multidisciplinary research done by Teams of two to three students. Each member should be able to serve as spokesperson and be fully involved and familiar with all aspects of the project. Final work should reflect the coordinated efforts of all Team members.

*Some topics, such as space-related studies, computer projects, and marine biology may fall into several Categories.*