State Science and Engineering Fair Structure

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 thirteen Categories:

CLARIFICATION OF CATEGORIES

Behavioral and Social Sciences
Clinical & Developmental Psychology
Cognitive Psychology
Physiological Psychology
Sociology
Anthropology
Archeology
Animal Behavior
Urban Problems
Other

Biochemistry
General Biochemistry
Metabolism
Structural Biochemistry
Molecular Biology
Other

Botany
Agriculture/Agronomy
Development
Ecology
Genetics
Plant Physiology (molecular, Cellular, organismal)

Chemistry
General/ Analytical Chemistry
Inorganic/ Organic Chemistry
Physical Chemistry
Other

Computer Science
Algorithms, Data Bases
Artificial Intelligence
Networking/ Communications
Computational Science, Computer Graphics
Software Engineering, Programming Languages
Computer System, Operating System
Other

Earth and Planetary Science
Climatology, Weather
Geochemistry, Mineralogy
Paleontology
Geophysics
Planetary Science
Tectonics
Other

Engineering
Electrical, Computer, Controls
Mechanical
Robotics
Thermodynamics, Solar
Bioengineering
Civil, Construction
Chemical
Industrial, Processing
Material Science
Aerospace, Aeronautical, Aerodynamics
Alternative Fuels
Fossil Fuel
Vehicle Development
Renewable Energies

Environmental Science
Bioremediation
Ecosystems Management
Environmental Engineering
Land Resource Management, Forestry
Recycling, Waste Management
Air Pollution and Air Quality
Soil Contamination and Soil Quality
Water Pollution and Water Quality
Other

Mathematics
Algebra
Analysis
Applied Mathematics
Geometry
Probability and Statistics
Other

Medicine and Health Sciences
Disease Diagnosis and Treatment
Epidemiology
Genetics
Molecular Biology of Diseases
Physiology and Pathophysiology
Other

Microbiology
Antibiotics, Antimicrobials
Bacteriology
Microbial Genetics
Virology
Other

Physics & Astronomy
Atoms, Molecules, Solids
Astronomy
Biological Physics
Instrumentation and Electronics
Magnetics and Electromagnetics
Nuclear and Particle Physics
Optics, Lasers, Masers
Theoretical Physics, Theoretical or Computational Astronomy
Other

Zoology
Animal Development
Ecology
Animal History
Pathology
Physiology
Population Genetics
Systematics
Other

. *****Team Projects*****
Multidisciplinary research done by Teams of 2 or 3 students. Final work should reflect the coordinated efforts of all team members. Team projects are now judged along with the individual projects in one of the chosen 13 categories listed above. TEAM PROJECTS NOT JUDGED IN A SEPARATE CATEGORY.