

# State Science and Engineering Fair Categories

Categories have been established with the goal of better aligning the judges and student projects for the judging process. Categories also help our Award Donors to select their award criteria. Each project at the SSEF is assigned to one of these categories.

\*\*\*Note the Changes in 2 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  
SoftwareEngineering, Programming Languages  
ComputerSystem, Operating System  
Other

### Earth & 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 Sciences

Bioremediation  
Ecosystems Management  
Environmental Engineering  
Land Resource Management, Forestry  
Recycling, Wast 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 & 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 Husbandry  
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.

## State Science and Engineering Fair Divisions

Projects are further divided into two Divisions to determine our Grand Prize Winners. A Best-in-Show or Grand Prize Winner is selected from each Division.

### Biological Sciences Division

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

### Physical Sciences Division

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