

# AACPS Regional Science & Engineering Expo

## Categories and Subcategories\*

### **Animal Sciences**

Animal Behavior  
Cellular Studies  
Development  
Ecology Genetics  
Nutrition and Growth  
Physiology  
Systematics and  
Evolution  
Other

### **Behavioral & Social Sciences**

Clinical and  
Developmental  
Psychology  
Cognitive Psychology  
Physiological Psychology  
Sociology and Social  
Psychology  
Other

### **Biochemistry**

Analytical Biochemistry  
General Biochemistry  
Medicinal Biochemistry  
Structural Biochemistry  
Other

### **Biomedical**

#### **Engineering**

Biomaterials and  
Regenerative Medicine  
Biomechanics  
Biomedical Devices  
Biomedical Imaging  
Cell and Tissue  
Engineering  
Synthetic Biology  
Other

#### **Chemistry**

Analytical Chemistry  
Computational  
Chemistry  
Environmental  
Chemistry  
Inorganic Chemistry  
Materials Chemistry  
Organic Chemistry  
Physical Chemistry  
Other

### **Earth and Astronomy**

Astronomy and  
Cosmology  
Atmospheric Science  
Climate Science  
Computational  
Astrophysics  
Geosciences  
Water Science

Other

### **Energy: Chemical**

Alternative Fuels  
Computational Energy  
Science  
Fossil Fuel Energy  
Fuel Cells and Battery  
Development  
Microbial Fuel Cells  
Solar Materials  
Other

### **Energy: Physical**

Hydro Power  
Nuclear Power  
Solar  
Thermal Power  
Wind  
Other

### **Engineering**

#### **Mechanics**

Aerospace and  
Aeronautical  
Engineering  
Civil Engineering  
Computational  
Mechanics  
Control Theory  
Ground Vehicle Systems  
Industrial Engineering-  
Processing  
Mechanical  
Engineering-Processing  
Mechanical Engineering  
Naval Systems  
Other

### **Environmental Science**

Bioremediation  
Environmental Effects  
on Ecosystems  
Land Reclamation  
Pollution Control  
Recycling and Waste  
Management  
Water Resources  
Management  
Other

### **Health Sciences**

Epidemiology  
Exercise  
Nutrition  
Physiology and  
Pathology  
Other

### **Intelligent**

#### **Machines/Robotics**

Biomechanics  
Cognitive Systems  
Control Theory Machine  
Learning Robot  
Kinematics Other

### **Materials Science**

Biomaterials  
Ceramic and Glasses  
Composite materials  
Computation and  
Theory  
Electronic, Optical, and  
Magnetic Materials  
Nanomaterials  
Polymers  
Other

### **Mathematics**

Algebra  
Analysis  
Combinatorics, Graph  
Theory, and Game  
Theory  
Geometry and Topology  
Number Theory  
Probability and Statistics  
Other

### **Medical Sciences**

Disease Detection and  
Diagnosis  
Disease Prevention  
Disease Treatment and  
Therapies  
Pre-Clinical Studies  
Other

### **Microbiology**

Antimicrobials and  
Antibiotics  
Applied Microbiology  
Bacteriology  
Environmental  
Microbiology  
Microbial Genetics  
Virology  
Other

### **Physics**

Atomic, Molecular, and  
Optical Physics Biological  
Physics Computational  
Physics Condensed  
Matter and Materials  
Instrumentation  
Magnetics,  
Electromagnetics, and  
Plasmas  
Mechanics  
Nuclear and Particle  
Physics

Optics, Lasers, Masers  
Quantum Computation  
Theoretical Physics  
Other

### **Plant Sciences**

Agronomy Ecology  
Genetics/Breeding  
Growth and  
Development  
Pathology  
Physiology  
Systematics and  
Evolution  
Other

### **Sustainable Design**

Affordable and Clean  
Water  
Clean Water and  
Sanitation  
Climate Action  
Communities  
Responsible  
Consumption and  
Production  
Energy  
Gender Equality  
Good Health and Well-  
Being  
Industry, Innovation,  
and Infrastructure  
Life Below Water  
Life on Land  
No Poverty  
No Hunger  
Quality Education  
Sustainable Cities and  
Other

### **Systems Software**

Algorithms  
Cybersecurity  
Databases  
Operating Systems  
Programming Languages  
Other

**\*Place your project in the closest related category.** If you are unsure what category to choose, contact your science teacher. If you still have questions, contact the Office of Science:

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