

Central NM Science & Engineering Research Challenge

2009-2010 Research Project Categories & Subcategories

ANIMAL SCIENCES

Development, Ecology, Genetics, Animal Husbandry, Pathology, Physiology, Systematics

ENGINEERING

MATERIALS & BIOENGINEERING

Bioengineering, Civil/Construction Engineering, Chemical Engineering, Industrial Engineering, Processing, Material Science

MEDICINE & HEALTH SCIENCES

Disease Diagnosis & Treatment, Epidemiology, Genetics, Molecular Biology of Diseases, Physiology & Pathophysiology

BEHAVIORAL & SOCIAL SCIENCES

Clinical & Developmental Psychology, Cognitive Psychology, Physiological Psychology, Sociology, Political Science

ELECTRICAL & MECHANICAL

Electrical & Computer Engineering, Controls, Mechanical Engineering, Thermodynamics, Solar, Robotics

MICROBIOLOGY

Antibiotics & Antimicrobials, Bacteriology, Microbial Genetics, Virology

CELLULAR & MOLECULAR BIOLOGY

Cellular Biology, Cellular & Molecular Genetics, Immunology, Molecular Biology

ENERGY & TRANSPORTATION

Aerospace, Aeronautical Engineering, Aerodynamics, Alternative Fuels, Fossil Fuel Energy, Vehicle Development, Renewable Energies

PHYSICS & ASTRONOMY

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

CHEMISTRY

Analytical, Inorganic, Organic, Physical, General

ENVIRONMENTAL SCIENCES

ENVIRONMENTAL ANALYSIS

Air Pollution & Air Quality, Soil Contamination & Soil Quality, Water Pollution & Water Quality

ENVIRONMENTAL MANAGEMENT

Bioremediation, Ecosystems Management, Environmental Engineering, Land Resource Management, Forestry, Recycling, Waste Management

PLANT SCIENCES

Agriculture/Agronomy, Development, Ecology, Genetics, Photosynthesis, Plant Physiology (molecular, cellular, organismal), Plant Systematics, Plant Evolution

COMPUTER SCIENCE

Algorithms, Data Bases, Artificial Intelligence, Networking & Communications, Computational Science, Computer Graphics, Software Engineering, Programming Languages, Computer &/or Operating Systems

EARTH SCIENCE

Climatology, Weather, Geochemistry, Mineralogy, Paleontology, Geophysics, Planetary Science, Tectonics

MATHEMATICAL SCIENCES

Algebra, Analysis, Applied Mathematics, Geometry, Probability & Statistics, Theoretical Mathematics

TEAM PROJECTS

Projects may be from any of the categories listed and teams may be made up of 2 or 3 students. Team projects will be evaluated by Team Judges.