ELIGIBLE MAJOR FIELDS OF STUDY AND WORK FOR ASTRONAUT SCHOLARSHIP FOUNDATION PROGRAMS

To be eligible for selection by the Astronaut Scholarship Foundation for a scholarship award, candidates must be majoring in an undergraduate degree program in Science, Technology, Engineering, or Mathematics (STEM). To be eligible for participation in other ASF programs that reference this document, candidates must be either majoring in or working in a career within STEM. The following list of approved STEM majors has been derived from the National Science Foundation Graduate Research Fellowship Program (GRFP) list of approved fields of study with the exception of the categories of Psychology, Social Sciences, and STEM Education and Learning Research which are specifically excluded from ASF Scholarship eligibility.


**CHEMISTRY**
Artificial Intelligence
Chemical Catalysis
Chemical Measurement and Imaging
Chemical Structure, Dynamics, and Mechanism
Chemical Synthesis
Chemical Theory, Models and Computational Methods
Chemistry of Life Processes
Computationally Intensive Research
Environmental Chemical Systems
Macromolecular, Supramolecular, and Nanochemistry
Quantum Information Science
Sustainable Chemistry
Chemistry, other (specify)

**COMPUTER AND INFORMATION SCIENCES & ENGINEERING**
Algorithms and Theoretical Foundations
Artificial Intelligence
Bioinformatics and other Informatics
Communication and Information Theory
Computational Science and Engineering
Computationally Intensive Research
Computer Architecture
Computer Networks
Computer Security and Privacy
Computer Systems and Embedded Systems
Data Mining and Information Retrieval
Data Science
Databases
Formal Methods, Verification, and Programming Languages
Graphics and Visualization
Human Computer Interaction
Machine Learning
Natural Language Processing
Quantum Computing and Communication
Quantum Information Science
Robotics and Computer Vision
Software Engineering
CISE, other (specify)

**ENGINEERING**
Aeronautical and Aerospace Engineering
Artificial Intelligence
Bioengineering
Biomedical Engineering
Chemical Engineering
Civil Engineering
Computationally Intensive Research
Computer Engineering
Electrical and Electronic Engineering
Energy Engineering
Environmental Engineering
Industrial Engineering & Operations Research
Manufacturing Engineering
Materials Engineering
Mechanical Engineering
Nuclear Engineering
Ocean Engineering
Optical Engineering
Quantum Engineering
Quantum Information Science
Systems Engineering
Wireless Engineering
Engineering, other (specify)
GEOSCIENCES
Aeronomy
Artificial Intelligence
Atmospheric Chemistry
Biogeochemistry
Biological Oceanography
Chemical Oceanography
Climate and Large-Scale Atmospheric Dynamics Computationally Intensive Research
Geobiology
Geochemistry
Geodynamics
Geomorphology
Geophysics
Glaciology
Hydrology
Magnetospheric Physics
Marine Biology
Marine Geology and Geophysics
Paleoclimate
Paleontology and Paleobiology
Petroleum
Physical and Dynamic Meteorology
Physical Oceanography
Quantum Information Science
Sedimentary Geology
Solar Physics
Tectonics
Geosciences, other (specify)

LIFE SCIENCES
Artificial Intelligence
Biochemistry
Bioinformatics and Computational Biology
Biophysics
Cell Biology
Computationally Intensive Research
Developmental Biology
Ecology
Environmental Biology
Evolutionary Biology
Genetics
Genomics
Microbial Biology
Neurosciences
Organismal Biology
Physiology
Proteomics
Quantum Information Science
Structural Biology
Systematics and Biodiversity
Systems and Molecular Biology
Life Sciences, other (specify)

MATERIALS RESEARCH
Artificial Intelligence
Biomaterials
Ceramics
Chemistry of Materials
Computationally Intensive Research
Electronic Materials
Materials Theory
Metallic Materials
Photonic Materials
Physics of Materials
Polymers
Quantum Information Science
Materials Research, other (specify)

MATHEMATICAL SCIENCES
Algebra, Number Theory, and Combinatorics Analysis
Applied Mathematics
Artificial Intelligence
Biostatistics
Computational and Data-enabled Science
Computational Mathematics Computational Statistics
Computationally Intensive Research
Geometric Analysis
Logic or Foundations of Mathematics
Mathematical Biology
Probability
Quantum Information Science
Statistics
Topology
Mathematics, other (specify)

PHYSICS & ASTRONOMY
Artificial Intelligence
Astronomy and Astrophysics
Atomic, Molecular and Optical Physics
Computationally Intensive Research
Condensed Matter Physics
Nuclear Physics
Particle Physics
Physics of Living Systems
Plasma Physics
Quantum Information Science
Solid State Physics
Theoretical Physics
Physics, other (specify)