



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.

(<https://www.nsf.gov/pubs/2023/nsf23605/nsf23605.htm>)

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)

Formal Methods, Verification, and Programming Languages
 Human Computer Interaction
 Information Sciences
 Machine Learning
 Natural Language Processing
 Parallel, Distributed, and Cloud Computing
 Quantum Information Science
 Robotics
 Scientific Computing
 Social Computing
 Software Engineering
 Wired and Wireless Networking
 CISE, other (specify)

COMPUTER AND INFORMATION SCIENCES & ENGINEERING

Accessibility
 Algorithms and Theoretical Foundations
 Artificial Intelligence
 Augmented Reality/Virtual Reality, Graphics, and Visualization
 Bioinformatics and Bio-inspired Computing
 Communication and Information Theory
 Computationally Intensive Research
 Computer Architecture
 Computer Security and Privacy
 Computer Systems
 Computer Vision
 Cyber-Physical Systems and Embedded Systems
 Data Science, Data Mining, Information Retrieval and Databases
 Electronic Design Automation and Design of Micro and Nano Computing Systems
 Fairness, Explainability, Accountability and Transparency in Analytics

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)

Systems and Molecular Biology
Life Sciences, other (specify)

GEOSCIENCES

Aeronomy
Artificial Intelligence
Arctic-Antarctic
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
Petrology
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

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)