ASTRONAUT SCHOLARSHIP
MAJOR FIELDS OF STUDY

APPROVED PROGRAMS

This list is based upon the National Science Foundation Graduate Research Fellowship Program listing of approved fields of study with the exception 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
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
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)

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
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
GEOSCIENCES (continued)
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
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)
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