



2020 ASTRONAUT
SCHOLARS

CALL FOR NOMINATIONS

LIAISON'S MANUAL



ASTRONAUT
SCHOLARSHIP
FOUNDATION

CREATED BY THE MERCURY 7 ASTRONAUTS

2020 ASTRONAUT SCHOLARS CALL FOR NOMINATIONS LIAISON'S MANUAL

Please use this manual to plan your internal solicitation and nomination process.
Thank you for supporting the next class of Astronaut Scholars.

KEY DATES

December 2019

2020 Astronaut Scholarship Call for Nominations provided to liaisons/universities and nomination portal activated

March 23, 2020

Nominee pool data due to Astronaut Scholarship Foundation from liaisons (minimum of eight submissions)
via online form (www.astronautscholarship.org/scholarshipprogramform)

March 30, 2020

Final nominations due to Astronaut Scholarship Foundation from liaison(s)

April 2020

Astronaut Scholarship Selection Committee convenes

May 2020

2020 Astronaut Scholars selected

June 2020

Students and schools notified of selections and invited to the Innovators Gala Weekend (August 19-22, 2020)

June 2020

Call for Astronaut Scholar research abstracts for Scholar Technical Conference during
the Innovators Gala Weekend (August 19-22, 2020)

July 2020

New Astronaut Scholar welcome call

Mid-July 2020

Abstracts due for Astronaut Scholar Technical Conference

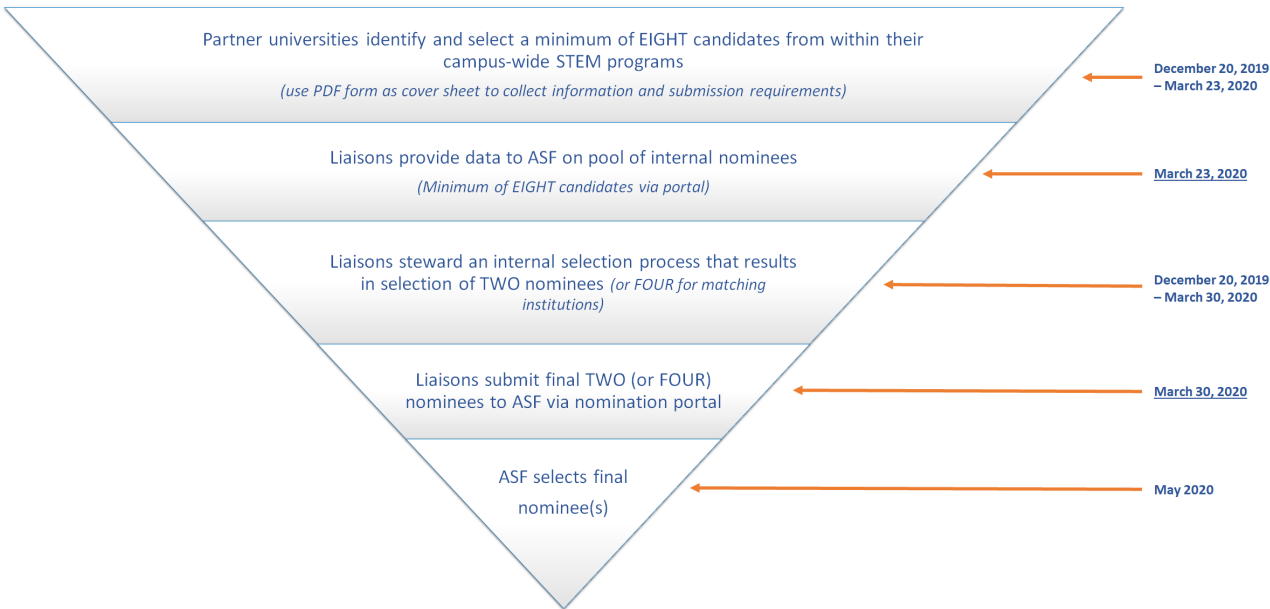
August 19-22, 2020

Innovators Gala Weekend in Washington, DC (www.astronautscholarship.org/ig)



REVIEW PROCESS & TIMETABLE

Graphic provides a model to inform internal candidate review and nomination to ASF for final selection.



NOMINATION CRITERIA

- Must be nominated by faculty at an ASF affiliated university or institution (www.astronautscholarship.org/universitypartners)
- Must be nominated for consideration by a professor or faculty member who knows the student well enough to identify a special drive or talent that foreshadows a creative career leading to the advancement of scientific knowledge and technology
- Must be a STEM major going into junior or senior year (STEM Designated Degrees - www.astronautscholarship.org/assets/astronaut-scholarship-major-fields-of-study.pdf)
Note: Special consideration is NOT given to aeronautical/astronautical engineering students or those intending to pursue careers as astronauts.
- Must be a U.S. citizen (verified by birth certificate, US passport, or naturalization papers)
- Must have completed two years of full-time study at an ASF affiliated university or institution and demonstrated exemplary academic performance, as noted in transcripts (Note: Students may be nominated during their second year of full-time study, for a scholarship that will begin in the third year.)
- Should be a full-time student during both semesters of the ASF supported academic year to receive the full scholarship, which is up to \$10,000
- Must have conducted a considerable amount of work outside the classroom in their chosen field of study. This may include laboratory research, cooperative education, internships, relevant military experience, entrepreneurial endeavors, and/or documented independent work resulting in technical papers, patents, or similar work product

Note on Scholarship Renewals: Students who have previously received the Astronaut Scholarship during their junior year should be submitted for renewal, provided that:

- The award is not for a third year (Typically, no more than two awards are permitted, though exceptions may be made with Scholarship Committee Chair approval.)
- Renewal is based upon continued excellence in academics and work outside the classroom in their chosen field of study
- Documentation is required to support renewal application and must include:
 - Supporting letter from the original nominating professor or faculty member and a personal statement from the Astronaut Scholar, summarizing the accomplishments during the past year
 - An updated copy of the Astronaut Scholar's academic transcript



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

- Chemical Catalysis
- Chemical Measurement and Imaging
- Chemical Structure, Dynamics, and Mechanism
- Chemical Synthesis
- Chemical Theory, Models and Computational Methods
- Chemistry of Life Processes
- Environmental Chemical Systems
- Macromolecular, Supramolecular, and Nanochemistry
- Sustainable Chemistry
- Chemistry, other (specify)

COMPUTER AND INFORMATION SCIENCES & ENGINEERING

- Algorithms and Theoretical Foundations
- Bioinformatics and other Informatics
- Communication and Information Theory
- Computational Science and Engineering
- Computer Architecture
- Computer Networks
- Computer Security and Privacy
- Computer Systems and Embedded Systems
- Data Mining and Information Retrieval
- Databases
- Formal Methods, Verification, and Programming Languages
- Graphics and Visualization
- Human Computer Interaction
- Machine Learning
- Natural Language Processing
- Robotics and Computer Vision
- Software Engineering
- CISE, other (specify)

ENGINEERING

- Aeronautical and Aerospace Engineering
- Bioengineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical and Electronic Engineering
- Energy Engineering
- Environmental Engineering





ENGINEERING (CONTINUED)

Industrial Engineering & Operations Research
Materials Engineering
Mechanical Engineering
Nuclear Engineering
Ocean Engineering
Optical Engineering
Polymer Engineering
Systems Engineering
Engineering, other (specify)

GEOSCIENCES

Aeronomy
Atmospheric Chemistry
Biogeochemistry
Biological Oceanography
Chemical Oceanography
Climate and Large-Scale Atmospheric Dynamics
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
Sedimentary Geology
Solar Physics
Tectonics
Geosciences, other (specify)

LIFE SCIENCES

Biochemistry
Bioinformatics and Computational Biology
Biophysics
Cell Biology
Developmental Biology
Ecology
Environmental Biology
Evolutionary Biology
Genetics
Genomics
Microbial Biology
Neurosciences
Organismal Biology
Physiology
Proteomics
Structural Biology
Systematics and Biodiversity
Systems and Molecular Biology
Life Sciences, other (specify)





MATERIALS RESEARCH

Biomaterials
Ceramics
Chemistry of Materials
Electronic Materials
Materials Theory
Metallic Materials
Photonic Materials
Physics of Materials
Polymers
Materials Research, other (specify)

MATHEMATICAL SCIENCES

Algebra, Number Theory, and Combinatorics
Analysis
Applied Mathematics
Biostatistics
Computational and Data-enabled Science
Computational Mathematics
Computational Statistics
Geometric Analysis
Logic or Foundations of Mathematics
Mathematical Biology
Probability
Statistics
Topology
Mathematics, other (specify)

PHYSICS & ASTRONOMY

Astronomy and Astrophysics
Atomic, Molecular and Optical Physics
Condensed Matter Physics
Nuclear Physics
Particle Physics
Physics of Living Systems
Plasma Physics
Solid State
Theoretical Physics
Physics, other (specify)





www.astronautscholarship.org