



2020 ASTRONAUT SCHOLARSHIP FOUNDATION

LIAISON GUIDE

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Good afternoon!

As we head into the Holiday Season and start to think about the new year's schedule, we would like to provide an update on our scholarship nomination timeline for 2020. The format will remain the same as last year - each university's final nominations (top two/four) will be submitted by the liaison via our [web-based form](#).

We have attached a pdf version of this form for liaisons to collect student information from their internal pool of candidates (minimum of eight).

We look forward to our continued partnership in choosing and supporting the next class of Astronaut Scholars.

Please use this listing of key dates to plan your internal solicitation and nomination process.

- ❑ **December 2019** - Call for Nominations sent to liaisons/universities and nomination portal activated
- ❑ **March 23, 2020** – Nominee pool data due to ASF from liaisons via online [form](#) (minimum of eight submissions)
- ❑ **March 30, 2020** - FINAL nominations due to ASF from liaison(s) (nominee packages uploaded via [web-based form](#))
- ❑ **April 2020** – Scholarship Selection Committee convenes
- ❑ **May 2020** – 2020 Astronaut Scholars selected
- ❑ **June 2020** - Students and schools notified of selections and invited to Innovators Gala Weekend (August 19-22, 2020)
- ❑ **June 2020** – Call for Astronaut Scholar research abstracts for Scholar Technical Conference during Innovators Gala weekend (August 19-22, 2020)
- ❑ **July 2020** – New Astronaut Scholar welcome call
- ❑ **Mid-July 2020** – Abstracts due for Scholar Technical Conference
- ❑ **August 19-22, 2020** - Innovators Gala Weekend in Washington D.C.

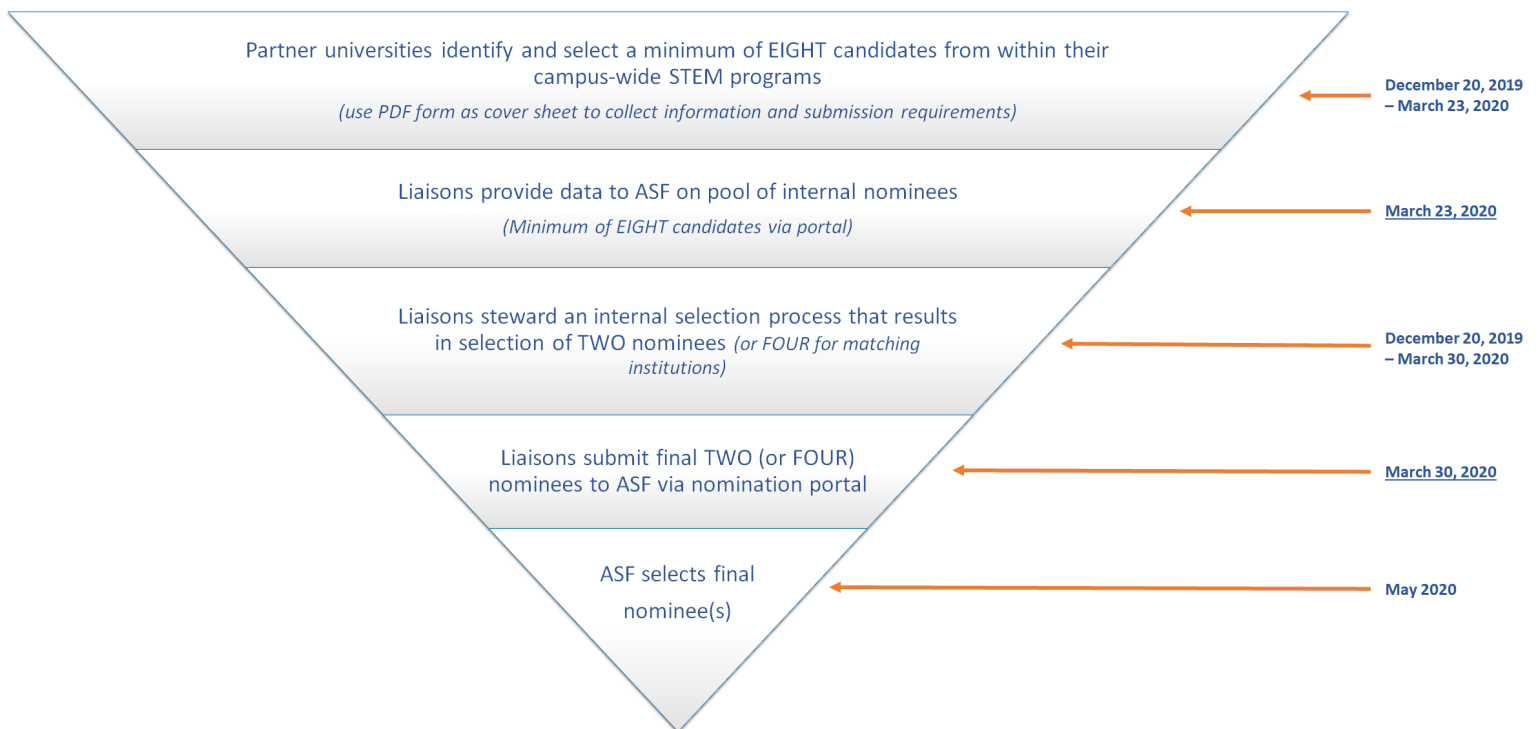


Figure 1 *Graphic provides a model to inform internal candidate review and nomination to ASF for final selection.*



MAJOR FIELDS OF STUDY ELIGIBLE FOR THE ASTRONAUT SCHOLARSHIP

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.

APPROVED PROGRAMS

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)*

Nomination Requirements

- Must be attending an ASF affiliated university, college, or institution
- Must be nominated by academic faculty
- Must be a STEM major going into junior or senior year (see approved academic program listing)*
- Must be a United States citizen (*proof of birthright or naturalization via birth certificate, naturalization papers, or passport*)
- Must be a high performing academic achiever
- Must be conducting graduate level research as undergraduate student
- Must be a full-time student during academic year scholarship is applicable
- Nomination package must include:
 - o proof of citizenship
 - o personal statement (one page)
 - o two letters of recommendation (one letter must be from research professor student is working under)
 - o current transcripts
 - o current resume or C.V.

** Special consideration is NOT given to aeronautical/ astronautical engineering students or those intending to pursue careers as astronauts.*

ENGINEERING

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