Students in Space! Resources I have found most helpful in astronomy, aerospace, and policy

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\$ Scholarships and Grants

Women in Aerospace Foundation Scholarships ★ 3rd+ year female undergraduate students	Due: Mid-June
Universities Space Research Association Scholarship † For 3+ year undergraduates interested in space science, aerospace, or STEM	Due: Early August
National Space Club and Foundation Scholarships 🖈 Scholarships for students interested in STEM	Due: Late-November
NASA State Space Grant Consortia 🖈 Grants and Scholarships available for undergraduate and graduate student.	Varied spring/fall cycles
Conferences	
Commercial Space Transportation Conference Annual industry discussion on commercial space flight	Washington, DC in Mid-February
	Washington, DC in Mid-February Due: Late-November
Annual industry discussion on commercial space flight Women in Space Conference 🖈	Due: Late-November Mid-November
Annual industry discussion on commercial space flight Women in Space Conference High school, undergraduate, or graduate students SEDS USA Space Vision	Due: Late-November Mid-November July

Applications open December
Fall application
Winter application
Seasonal cycles
Due: November
ry
Due: November
Due: February

Lloyd V. Berkner Science Policy Internship at National Academies ★

Undergrads or Grad students work on research projects that support NAS

Organizations

Women in Physics ★

Chapters at individual universities, national organization that hosts annual regional conferences

Society for Women in Space Exploration 🖈

Growing international organization including chapters for colleges and professionals

Space Generation Advisory Council 🖈

Conference, leadership, and scholarship opportunities for young professionals (ages 18-35) worldwide

Astronomy

Astronomy Camp ★

Rolling admission through fall/winter

Beginning/Advanced Teen and Adult sessions

American Astronomical Society ★

Professional astronomer organization with conferences and other opportunities

Astronomical League ★

Become a member by joining one of their nation-wide amateur astronomy clubs

- > Scholarships are available via club nomination for students who participate in outreach
- > Awards given by completing observing programs and taking on leadership roles

News and Education

Books

Intended for variety of audiences

- > Space Warfare in the 21st Century by John Johnson-Freese
- > Crowded Orbits by James Clay Moltz
- > The Physics of Space Security by David Wright, Laura Grego, and Lisbeth Gronlund
- > Roger Launius's and John Logsdon's various books on the history of space exploration

Newsletters

To stay up-to-date on space policy news

- > Space Policy Online sends updates on space-related news along with a weekly calendar of events in the industry
- > Politico has a space dedicated news site with free email subscriptions available
- > SpaceNews has a daily morning news email curated by Jeff Foust (on Twitter: @Jeff_Foust)
- > CSIS Aerospace Project distributes notifications about new articles and upcoming broadcasts
- > The Aerospace Corporation has a mailing list for their Center for Space Policy Strategy

Podcasts

Just for fun!

- > NASA has a series of podcasts on a variety of topics in aerospace
- > BBC has a podcast detailing the history of the Apollo program called "13 Minutes to the Moon"
- > Astro, Esq. is a podcast dedicated to exploring space law through interviews with experts

FOR KIDS

It's never too early to encourage a young person to explore!

- > Math Doesn't Suck series by Danica McKellar
- > George's Secret Key to the Universe series by Lucy and Stephen Hawking
- > Ada Lace series by Emily Calandrelli

🎽 Tips, Tricks, and Thoughts

Communication Knowing how to communicate is the key to success in any field, including STEM. People cannot get excited about your work without it! Learn how to professionally interact with your classmates and professors and seek out opportunities to practice speaking and presenting. Outreach is a fantastic way to learn how to convey complex topics in STEM to a broad audience!

Networking Building your personal network can seem like a daunting task but is rewarding. Think of the people you meet as mentors. Keep track of their contact information, where you met, interesting information about them, when you last talked, and what their job or background is in a spreadsheet, and make sure to follow up regularly. Networking is largely about authenticity; even as a student you have things to offer to them through volunteering your time on projects they may need help with and sharing your enthusiasm for what you do. To get started on some quick tips and tricks, watch this video series by networking guru Keith Ferrazzi.

Funding Going to conferences is a great way to network, but they can be expensive! Applying to the scholarships and grants listed above is a good place to start. In addition, you may be able to get in contact with the conference organizers and ask to apply for funding, or to volunteer in exchange for being able to sit in on the event. Your institution may also have internal grant application databases, or if you speak with your professors, your department may be willing and able to spare funding for you to attend different professional and academic development events.

Twitter In the age of social media, Twitter is a useful tool for staying up-to-date in the space industry and for meeting other people enthusiastic about space. Twitter has its disadvantages, but nevertheless when used professionally can be a useful networking tool.

Coursework Start taking classes in your major as early as possible, but take advantage of general education requirements if you have them! These are the classes that offer opportunities to make cross-disciplinary connections from STEM to humanities and may expose you to niches within the aerospace industry you didn't know you were interested in before.

Clearance Jobs Some jobs in space policy or national defense within the government and commercial sectors will require security clearances. The process is lengthy, so if you want to pursue one of these positions it is good to consider it early in your college career.

Other Resources Dr. Therese Jones (Satellite Industries Association) has a Guide to the Space Life document with a more exhaustive list that includes grad schools.