

Fellowships by Discipline **Engineering, Applied Sciences & Technical Fields**

Visit each website for eligibility, application & deadline information

[Christine Mirzayan Science & Technology Policy Graduate Fellowship Program](#)

The Christine Mirzayan Science & Technology Policy Graduate Fellowship Program, now in its 16th year, provides early career individuals with the opportunity to spend 12 weeks at the National Academies in Washington, DC learning about science and technology policy and the role that scientists and engineers play in advising the nation. Each year, applicants from around the world become part of a National Academies committee, board, or unit where they are assigned to a mentor and learn about the world of science and technology policy. An immersive experience, the program is designed to broaden fellows' appreciation of employment opportunities outside academia and leave them with both a firm grasp of the important and dynamic role of science and technology in decision-making and a better understanding of the role that they can play in strengthening the science and technology enterprise for the betterment of mankind.

[Department of Energy, Computational Science Graduate Fellowship](#)

The Department of Energy Computational Science Graduate Fellowship (DOE CSGF) program provides outstanding benefits and opportunities to students pursuing doctoral degrees in fields of study that use high performance computing to solve complex science and engineering problems. The program fosters a community of bright, energetic and committed Ph.D. students, alumni, DOE laboratory staff and other scientists who share a common desire to impact the nation while advancing their science. Fellowship students represent diverse scientific and engineering disciplines but the common thread is their use of mathematical and computing techniques for their research. The program provides support for graduate students pursuing work in mathematics, computer science, and science/engineering fields.

[Exploration Fund of the Explorers Club](#)

The Explorers Club offers grants to students conducting individual scientific or exploration research projects through their respective schools with a supervising instructor. Youth Activity Fund for high school students and college undergraduates, fosters a new generation of explorers dedicated to the advancement of scientific knowledge of the world. Exploration Fund, for graduate, post-graduate, doctorate and early career post-doctoral students, provides grants in support of exploration and field research for those who are just beginning their research careers. Our awards typically range from \$500 to \$2500 US in each Fund. A few awards may be granted up to a \$5000 award level.

[Hertz Graduate Fellowship](#)

The Hertz Foundation's Graduate Fellowships are merit-based, and consist of a cost-of-education allowance (paid to the school attended by the Fellow) and an additional personal stipend. The Fellowship is renewable annually (upon satisfactory progress toward receipt of the Ph.D. degree) for a total of no more than five years. Successful applicants will show "evidence of exceptional creativity, broad understanding of physical principles, and outstanding potential for innovative research." Applicants must be students of the applied physical sciences, including applied physics, applied chemistry, applied mathematics, applied modern biology and all areas of engineering, "which apply results from the basic physical sciences to generate solutions to problems of comparatively near-term, widespread human interest."; citizens or permanent residents of the United States of America; and must be "willing to morally commit to make their skills available to the United States in time of national emergency." College seniors wishing to pursue the Ph.D. degree, and graduate students already enrolled in Ph.D. programs, may apply. The Foundation does not support study for the M.D. degree, although it will support the Ph.D. portion of a joint M.D./Ph.D. study program. Application deadline is usually early November.

[Howard Hughes Medical Institute Science Education & Research Training Funding](#)

HHMI's science education grants program spurs innovation in science education for students at the precollege level through advanced training. Our diverse portfolio of programs is unified by a core philosophy: innovation in science depends on the quality and diversity of students who are supported in pursuing original research.

[Mayo Summer Undergraduate Research Fellowship](#)

The Mayo Summer Undergraduate Research Fellowship (SURF) program, sponsored by Mayo Graduate School, is a great way to build your skills as a young scientist or test your inclinations toward research. Each year, approximately 120 undergraduate students from around the United States come to Mayo Clinic in Rochester, Minn., to work beside both young and established scientists on a broad range of biomedical research questions. A limited number of fellowships are also available at the Mayo Clinic campuses in Jacksonville, Florida and Scottsdale, Arizona. Deadline: February 1st

[Microsoft Scholarships](#)

Microsoft offers four types of scholarships for undergraduate students interested in computer science and related technical disciplines (General, Women, Minority and Disabilities). Includes one year award for students attending institutions in the United States, Canada, and Mexico. All recipients of a scholarship will be required to complete a salaried summer internship of 12 weeks or more at Microsoft Corporation in Redmond, Washington. Deadline: mid-January.

[National Academy of Sciences, National Academy of Engineering, Institute of Medicine and National Research Council Fellowships](#)

The National Academy of Sciences, National Academy of Engineering, Institute of Medicine, and National Research Council offer several fellowships in science, engineering, and medicine. Information on eligibility guidelines and application deadlines varies.

[National Physical Science Consortium](#)

The National Physical Science Consortium is a partnership between government agencies and laboratories, industry, and higher education. NPSC's goal is to increase the number of American citizens with graduate degrees in the physical sciences and related engineering fields, emphasizing recruitment of a diverse applicant pool. The NPSC Graduate Fellowship is unique in being: open to all American citizens; lasting for up to six years; providing a \$20,000 annual stipend; covering tuition; allowing a fellow also to hold a research or teaching assistantship; including one or two paid summer internships with a government agency; providing a mentor and the opportunity for a lasting relationship with the sponsor. The application is easy to complete, requiring the same information as other national fellowships. The online application typically opens August 25 and closes November 30. NPSC welcomes applications from all U.S. citizens, with continued emphasis toward the recruitment of underrepresented minorities: African-Americans, Hispanic Americans, Native Americans (Indian, Eskimo, Aleut), Pacific Islanders (Polynesian) and/or women. Evaluation will be based on such factors as academic record and concentration, research activities, honors, and awards.

[National Collegiate Inventors & Innovators Alliance—Advanced E-Team Grants](#)

Funds entrepreneurial projects that involve collaboration between engineering and business schools in order to offer students creative, hands-on experiences. Grants of 12-18 months provide e-teams with support needed to bring an innovative product or technology from idea to prototype, and eventually to market. Successful proposals demonstrate an idea's technical feasibility, social value, and potential for commercialization. An e-team consists of at least two graduate or undergraduate students and a faculty advisor. Team should also include industry and business development advisors and mentors. Pacific is not presently a member of NCIIA, but students with a viable project proposal may inquire about membership arrangements (December and may application deadlines).

[National Science Foundation Funding](#)

The National Science Foundation offers funding for undergraduate, graduate and post-doctoral work in a range of scientific disciplines. The Foundation aims to ensure the vitality of the human resource base of science, mathematics, and engineering in the U.S. In considering applications, reviewers are asked to assess: intellectual merit, which includes intellectual and scientific ability; the ability to work as part of a team as well as independently; and the ability to communicate, and to plan and conduct research, the broader impact of the applicant's contributions to society, and commitment to diversity.

[Self-Graduate Fellowship](#)

Development opportunities for exceptional PhD students in Engineering with promise to make significant contributions to field of study and society; graduate fields include ecology and evolutionary biology; specialized training plus preparation for leadership roles; fellows interact with national experts to gain broad knowledge of public policy issues; capstone is intensive public policy seminar in Washington DC must have received bachelor's degree within last eight years (October deadline)

[Woods Hole Oceanographic Institution Educational Programs](#)

The future of human knowledge about the ocean rests in a motivated graduate student or post-doctoral researcher, a curious undergraduate, or a bright young high school student. WHOI is helping shape this future by offering a wide range of programs and opportunities for students and young scientists at all stages of their development. The Woods Hole Oceanographic Institution offers several types of postdoctoral awards. A term appointment to the position of Postdoctoral Scholar, Fellow, or Investigator may be offered to an individual who has completed the requirements for a Ph.D. degree. The degree may or may not have been officially awarded; a letter from the individual's university asserting that he or she has completed all of the requirements for the degree is satisfactory for establishing eligibility for the position. Each type of postdoctoral appointment has a slightly different selection and appointment procedure. WHOI also offers several undergraduate programs including Summer Student Fellowship, Minority Fellowship and Guest Student Program.