

For Undergraduate Students (graduate students - please scroll to end of list)

George Mason University: Aspiring Scientists Summer Internship Program (ASSIP)

Program Description: Students work alongside Mason researchers using state-of-the-art technology to solve hypothesis driven questions in Proteomics, Genomics, Medicine, Neuroscience, Chemistry, Biochemistry, Biodefense, Environmental Science, Mathematical Modeling, Computer Science, Bioinformatics, Nanotechnology, Physics and Bioengineering.

- Website: <http://assip.cos.gmu.edu>
- Application Due Date: February 5th, 2019
- Internship Duration: June 22nd, 2017 – August 10, 2019
- Paid: No
- Location: Fairfax, VA

The Undergraduate Research Scholars Program (URSP)

Program Description: URSP is designed to give undergraduates an authentic research, creative, or scholarly experience under the guidance of a mentor. Students may receive financial support and/or academic credit for their projects, in addition to developing relevant academic and professional skills.

- Website: <https://oscar.gmu.edu/students/ursp/>
- Application Due Date: Feb. 20th, 2019
- Internship Duration: Summer 2019
- Paid: Traditional 144 hrs – \$ 1500, intensive: 360 hrs – \$ 5000
- Location: Fairfax, Va

CNF & PARADIM REU PROGRAMS

Program Description: During the summer of 2019, Cornell NanoScale Science & Technology Facility (CNF) and Platform for the Accelerated Realization, Analysis, and Discovery of Interface Materials (PARADIM) will sponsor Research Experience for Undergraduates (REU) programs from June through August. Engineering and science students with broad interests across disciplines focusing on nanotechnology are eligible to apply (see restrictions and eligibility requirements below) for the ten internships. Women, minorities, and students with no previous research experience are especially encouraged to apply.

- Website for CNF REU: http://www.cnf.cornell.edu/cnf5_reuprogram.html
- Website for PARADIM REU: <http://paradim.cornell.edu/outreach/reu-program/>
- CNF & PARADIM REU APPLICATION NOTES:
http://www.cnf.cornell.edu/cnf_reuFAQs.html
- CNF & PARADIM REU Online Application: <http://www.reu.nmin.org/>
- Application deadline: website not updated yet, usually in February
- Online recommendation deadline: ??
- Internship Duration: June – August, 2019

Janelia Research Campus (HHMI) – UG Scholars Program:

Program Description: The Janelia Undergraduate Scholars program is a 10-week summer program aimed at well-prepared, independent, and committed students with significant research experience. We accept undergraduates and post-baccalaureate students who have not committed to a PhD program.

- Full Description & Requirements: See below link
- Website: <https://www.janelia.org/you-janelia/students-postdocs/undergraduate-scholars-program>
- Application: Not yet posted
- Internship Duration: Summer 2019, 10-week program
- Paid: No
- Location: Ashburn, VA

Biomedical Engineering Summer Internship Program (BESIP):

Program Description: The NIBIB-sponsored Biomedical Engineering Summer Internship Program (BESIP) is for undergraduate biomedical engineering students who have completed their junior year of college. The internship will allow rising senior biomedical engineering students to participate in cutting-edge biomedical research projects under the mentorship of world-class scientists in NIH laboratories in Bethesda, Maryland.

- Website: <http://www.nibib.nih.gov/training-careers/undergraduate-graduate/biomedical-engineering-summer-internship-program-besip>
- Application Due February ??, 2019, application not open yet
- Internship Duration: Summer 2019
- Paid: Competitive Salary Range depending upon experience and credentials
- Location: Bethesda, MD

Summer Internship Program in Biomedical Research (SIP):

Program Description: Summer programs at the National Institutes of Health (NIH) provide an opportunity to spend a summer working at the NIH side-by-side with some of the leading scientists in the world, in an environment devoted exclusively to biomedical research. The NIH consists of the 240-bed Mark O. Hatfield Clinical Research Center and more than 1200 laboratories/research projects located on the main campus in Bethesda, MD and the surrounding area as well as in Baltimore and Frederick, MD; Research Triangle Park, NC; Phoenix, AZ; Hamilton, MT; Framingham, MA; and Detroit, MI.

- Website: <https://www.training.nih.gov/programs/sip>
- Application Due Date: Mid November 2018 – March 1, 2019
- Internship Duration: Summer 2019, 8 – 12 weeks
- Paid: The stipends for trainees are adjusted yearly; the level depends on education completed prior to starting at the NIH.

Opportunities at FDA for graduate and undergraduate students:

<https://www.fda.gov/AboutFDA/WorkingatFDA/FellowshipInternshipGraduateFacultyPrograms/default.htm>

Johns Hopkins University

Program Description: 2019 Computational Sensing and Medical Robotics Research Experience for Undergraduates Program at The Johns Hopkins University in the Laboratory for Computational Sensing and Robotics (LCSR). The REU program is an intensive ten-week program of laboratory research and instruction. In the program, each REU student receives hands-on laboratory research experience under the guidance from faculty and graduate student mentors. The students may also receive classes on ethics in research and technical communication. The students will have the opportunity to tour a local government laboratory and a private company.

- Website: <http://lcsr.jhu.edu/REU>
- Application: Dec. 2018 – February 10 midnight, 2019, will be available in October
- Internship Duration: May 29th 2019 – August 2nd, 2019 – *tentative dates*
- Stipend and Housing: The students will be provided housing and a stipend of \$5000 for the 10-week period will be paid

For questions please email Ms. Anita Sampath at asampath@jhu.edu.

Northwestern University

Program Description: The NU-MRSEC offers a 9-week summer research experience for undergraduates located near the city of Chicago. Students are paired with leading researchers in science and engineering fields. Research areas include ceramics, nanocomposites, photonics, nanoparticles, molecular electronics, and biomaterials. Participants are paid a \$4,500 stipend and travel expenses and housing are provided.

- Website: <http://mrsec.northwestern.edu/undergraduate-opportunities>
- Application Deadline: February ??, 2019
- Internship Duration: June – August, 2019
- Stipend and Housing: The students will be provided housing and a stipend of \$4,500 will be paid

The Naval Research Enterprise Internship Program (NREIP)

Program Description: The Naval Research Enterprise Internship Program (NREIP), provides an opportunity for students to participate in research at a Department of Navy (DoN) laboratory during the summer. The goals of the NREIP are to encourage participating students to pursue science and engineering careers, to further education via mentoring by laboratory personnel and their participation in research, and to make them aware of DoN research and technology efforts, which can lead to employment within the DoN.

- Website: <https://nreip.asee.org>
- Application Deadline: Nov.02, 2018.
- Internship Duration: Summer 2019 (10 weeks May – August, 40 hrs per week)
- Paid: For undergraduate students the stipend is as follows: Sophomores receive \$5,400.00. Juniors and Seniors receive \$8,100.00. Graduate students will receive \$10,800.00.
- Location: Various Locations.

National Oceanic and Atmospheric Administration (NOAA)

Program Description: The National Oceanic and Atmospheric Administration (NOAA) is pleased to announce the availability of scholarships (includes internships) to college sophomore students majoring in STEM disciplines related to oceanic and atmospheric science, research, or technology, and supportive of the purposes of NOAA's programs and mission, e.g., biological, social and physical sciences; mathematics; engineering; and computer and information sciences.

NOAA is accepting applications from students who will have Official Junior status in Fall 2019.

- Ernest F. Hollings Undergraduate Scholarship Program Website: <https://www.noaa.gov/office-education/hollings-scholarship>
- Application Due Date: January 31st, 2019
- Eligibility Requirements: US Citizen, 3.0 GPA, Sophomore in college studying a NOAA science: atmospheric science, biology, cartography, chemistry, computer science, engineering, environmental science, geodesy, geography, marine science, mathematics, meteorology, oceanography, physical science, photogrammetry, physics, etc. at the time of application.
- Paid: \$700/week

University of Virginia – Summer Research Internship Program

Program Description: The University of Virginia School of Medicine offers summer research internship opportunities to qualified college undergraduates considering a career in biomedical research. The program targets, but is not limited to, racially and ethnically diverse students in their junior and senior years. Interns receive approx. \$4,683 toward summer expenses. In addition, housing and travel to and from Charlottesville are provided. The program's goals are to expose undergraduates to laboratory research and to familiarize them with the opportunities that exist for careers in biomedical research. Presentations and panel talks from our graduate students, along with free GRE tutorials, help SRIP interns successfully navigate the graduate school application process.

- Website: <http://www.medicine.virginia.edu/education/phd/gpo/srip/home-page>
- Application Due Date: transcripts and letters of recommendation are due: Feb. 1th, 2019
- Internship Duration: May 28th – August 2nd, 2019
- Paid
- Location: Charlottesville, VA

SRF Summer Scholars Program

Program Description: The SRF Summer Scholars Program offers undergraduate students the opportunity to conduct biomedical research to combat diseases of aging, such as cancer, Alzheimer's, and Parkinson's Disease. Under the guidance of one or more scientific mentors, each Summer Scholar is responsible for his or her own research project. The Summer Scholars Program emphasizes development of not only laboratory skills but communication skills as well. Students participating in the program will develop writing skills via periodic reports throughout the internship and presentation skills via a poster presentation at a SRF-sponsored conference at the end of the Program. Paid positions are available at world-renowned research institutions throughout the country.

- Website: <http://www.sens.org/education/research-opportunities/srf-summer-scholars-program>
- Application opens beginning of September, 2019
- Internship Duration: TBD
- Paid: Stipend
- Location: Various, please check website

National Security Agency Summer Intern Program for Science and Technology

Program Description: The Summer Intern Program for Science and Technology (SIP/ST) is a full time 12-week summer internship program open to college juniors who are concentrating their studies in the disciplines of computer science, computer engineering, electrical engineering, computer systems engineering, network engineering, mechanical engineer or telecommunications.

The SIP/ST participants have an opportunity to work with leading computer scientists and engineers on the nation's toughest cyber problems while enhancing their skills in assignments related to their major. The students work closely with a project mentor on a specific, mission-focused problem while learning in an exciting high-tech environment.

Qualifications:

- Must be a U.S. citizen
- Must be eligible to be granted a security clearance
- A GPA of 3.0 or higher is preferred
- Must be available for an operational interview and other applicable processing between the month of December 2018 and March 2019
- Must be a college junior or have at least college junior status (high potential sophomores may also be considered)

- Website: <https://www.intelligencecareers.gov/icstudents.html?Agency=NSA>
- Application Due Date: October 31, 2018
- Internship Duration: 12 weeks
- Paid: Yes
- Location: Fort George G Meade, Maryland

ORISE/Homeland Security – Summer Internship Program – on hold due to federal budget restrictions

- Website: <https://www.ora.gov/dhseducation/internships/index.html>
- contact DHSed@ora.gov

Extensive list of REU (Research Experience for Undergraduates) sites

https://www.nsf.gov/crssprgm/reu/list_result.jsp?unitid=5047

APPLICATIONS: Students must contact the individual site or program to apply. NSF does not have application materials and does not select student participants.

ELIGIBILITY: Individual sites may have additional eligibility requirements (e.g., number of undergraduate years completed). Undergraduate student participants supported with NSF funds must be citizens or permanent residents of the United States or its possessions. High school graduates who have not yet enrolled, and students who have already received their bachelor's degrees, are not eligible.

For Graduate Students –

GMU Summer 2019 Research Fellowship

Program Description: Summer Research Fellowships provide financial support to graduate students during the summer term, allowing students to devote significant time to dissertation or thesis research. The intent of the award is to foster greater professional productivity and to assist in timely degree completion. Summer Research Fellowships are awarded on a competitive basis. Applicants must submit materials to the Office of the Provost by TBD (see Application Process).

- Website (for 2018 fellowship, 2019 not yet posted):
<https://provost.gmu.edu/sites/provost/files/Summer%20Research%20Fellowships%202018.pdf>
- Internship Duration: TBD
- Paid: PhD students – TBD; MS students – TBD

Link for graduate student Fellowship Opportunities - <https://gradfellows.gmu.edu/fellowship-opportunities/>