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 opens November 15, 2019
- Internship Duration:
- 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 for Summer 2020: Feb. 19th, 2020
- Internship Duration: June 2 – August 7, 2020
- Funding: Traditional 144 hrs – $ 1000, intensive: 360 hrs – $ 4000

LOCAL:

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 deadline: January 7th, 2020 @ 3:00 pm
- Internship Duration: Summer 2020, from May to August, 10-week program
- Paid: $5000 for a 10-week period
- Location: Ashburn, VA
- International students are eligible and visas will be supported

Biomedical Engineering Summer Internship Program (BESIP): Application website is currently closed, goes live mid-November 2019

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
- Online Application Deadline: February 3, 2020
- Reference Letters Deadline: February 10, 2020
- Internship Duration: June 1st – August 7th, 2020
- Notification of selected interns: February 24, 2020
- Interns must accept or decline by: March 9, 2020
- Paid: $5600
- Location: Bethesda, MD

Summer Internship Program in Biomedical Research (SIP): TBD_SU 2020 not live yet

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:
- Internship Duration:
- 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 - TBD

Program Description: 2020 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:
- Internship Duration:
- 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.

NATIONAL:

CNF & PARADIM REU PROGRAM

Program Description: During the summer of 2020, 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 Online Application: http://www.reu.nnin.org/
- Application deadline: *Wednesday, February 12, 2020 (5:00 p.m. Pacific, 8:00 p.m. Eastern)*

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.01, 2019 at 6:00 pm EST

- Internship Duration: Summer 2020 (10 weeks May – August, 40 hrs per week)
- Paid: $7000 for new undergrad students, $8500 returning undergrad students, $11 000 for grad students.
- 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 21st, 2020
- 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 for a 10-week period

University of Virginia – Summer Research Internship Program - TBD

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:
- Internship Duration:
- Paid
- Location: Charlottesville, VA

SRF Summer Scholars Program - TBD

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 Tuesday, October 15th 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 2019 and March 2020
– 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
- https://apply.intelligencecareers.gov/job-description/1133498
- Application Due Date: October 15, 2019
- Internship Duration: 12 weeks
- Paid: Yes

- Location: Fort George G Meade, Maryland

Wake Forest University REU Internship – Not live yet

The Biomedical Engineering Department at Wake Forest University will offer several summer research opportunities in 2020 focusing on Imaging and Mechanics-based Projects on Accidental Cases of Trauma (IMPACT) and other biomedical engineering topics. Students selected for this Research Experience for Undergraduates (REU) program will receive a stipend and on-campus housing

The Wake Forest Biomedical Engineering summer program admits up to 30 students each summer who meet the follow eligibility requirements.

http://www.wakehealth.edu/CIB/Summer-Research-Opportunities.htm

- Undergraduate students from all institutions (Wake Forest University students are eligible)
- Students in good academic standing - U.S. citizens, U.S. nationals and U.S. permanent residents
- Under-represented students from colleges with limited research opportunities in science, technology, engineering and mathematics are encouraged to apply

Duration: from May 22 - August 1, 2020

Application deadline: TBD

National Institute of Standards and Technology (NIST) - SURF

Details about summer 2020 to be announced late November:
https://www.nist.gov/surf
US citizens only

University of Michigan Frankel Cardiovascular Center (FCVC) – SURF
Application opens December 16th and closes January 31, 2020
www.tinyurl.com/fcvcsummerfellowship

REU (Research Experience for Undergraduates) site for biological sciences

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 Research Fellowship – Helpful Link

https://gradfellows.gmu.edu/
https://gradfellows.gmu.edu/fellowship-opportunities/

Janelia Research Campus (HHMI) – Graduate Research Fellowship:

https://www.janelia.org/you-janelia/students-and-postdocs/graduate-research-fellowship

SIP in Biomedical Research, NIH (not open yet):

https://www.training.nih.gov/programs/sip

Opportunities at FDA for graduate and undergraduate students:

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