

2017 Summer Research & Internship Programs – 11/22/2016

Is it really time to start thinking about summer plans?!

YES -- Most summer program applications are due in January and February.

You need lead time to search and select programs, contact your reference letter writers, spruce up your resume, get transcripts and complete the application.

One more note - most are PAID! \$\$\$\$

Feel free to meet with an advisor in A258 Langley to discuss any of these options or other ones!

Below you will find:

- 1) Some example Summer Research Programs in Pittsburgh**
- 2) Some example Summer Research Programs all over U.S.**
- 3) Ways you can search for other Summer Research Programs**

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1) Some Summer Research Programs in Pittsburgh

Pitt – Dept of Biological Sciences: Mentor/Mentee Summer Fellowship – deadline TBA

This 11-WEEK program for University of Pittsburgh (Pittsburgh campus) undergraduates interested in research runs May – August. The program includes:

A 2-week Group Project. Teams tackle a research project together. Junior and Senior undergraduates paired with Freshmen and Sophomores will master a set of research skills and learn about research and facilities across the department.

A 9-week research rotation in a Faculty Laboratory. All students will work in different labs throughout the department for the remainder of the summer. Students will share their research with each other in a weekly student seminar series. Students will hear from faculty about their lab experiences in another seminar series.

<http://www.biology.pitt.edu/undergraduate/awards-and-fellowships/mentormentee>

Pitt – Dept of Comp & System Bio: TECBio Reu – deadline TBA

The Training and Experimentation in Computational Biology (TECBio): "Simulation and Visualization of Biological Systems at Multiple Scales" REU program is a 10-week summer program that will provide a challenging and fulfilling graduate-level research experience to undergraduate students. A wide variety of theoretical and experimental research projects are available to our participating students. Students will also receive classroom training in topics pertinent to the emerging field of computational biology, such as computational structural biology, cell and systems modeling, computational genomics, and bioimage informatics. Additionally, TECBio students will participate in a weekly journal club, attend research and career seminars organized specifically for the program, take part in an ethics forum that will instruct them in the responsible conduct of research, present their work at a Pittsburgh-wide annual research symposium.

<http://www.tecbioreu.pitt.edu/index.php?page=home>

Pitt – Vascular Medicine Institute: SURP – deadline TBA

The University of Pittsburgh, in cooperation with the American Heart Association and the Vascular Medicine Institute, offers a stipend to support summer research experiences in cardiovascular sciences or brain ischemia research for undergraduates mentored by a University faculty member. The SURP is designed to expose students to cutting-edge basic and translational cardiovascular research.

<http://www.vmi.pitt.edu/aha-surp/index.html>

Pitt – Center for Neuroscience: SURP – deadline TBA

Each summer, the Center for Neuroscience at the University of Pittsburgh (CNUP) sponsors a 10-week program in which selected undergraduate students conduct research investigating diverse aspects of nervous system function under the guidance of individual CNUP training faculty.

<http://www.cnup.neurobio.pitt.edu/training/summer/index.aspx>

UPMC – Children’s Hospital: Student Research Internship – deadline TBA

The Summer Research Internship Program provides training for undergraduate, graduate and medical students in Health Sciences who wish to learn the rationale, design strategies, methods and other aspects of biomedical research as research assistants.

Participants engage in studies under the direct supervision of investigators who are members of Children’s Hospital of Pittsburgh of UPMC’s faculty and staff. In addition to the educational benefits, research assistants are also compensated.

<http://www.chp.edu/research/about/training-program>

Pitt – School of Medicine: SURP – deadline Feb 1

Summer Undergraduate Research Program (SURP) provides an intensive 10-week research experience designed to help undergraduates perform outstanding cutting edge research at Pitt. Students are matched with research mentors, participate in weekly seminars and lab meetings and conduct laboratory based research. Housing in a modern University dormitory is provided along with social activities that enable students to enjoy life in Pittsburgh. At the program’s conclusion all students write up their work and give presentations on their projects. If you are contemplating graduate school in the biomedical sciences, then SURP can help give you the experience needed to make an informed decision.

<http://www.gradbiomed.pitt.edu/node/268>

Duquesne – Bayer School: Undergrad Research – deadline Feb 1

The Duquesne University Undergraduate Research Program is funded by the Bayer School of Natural and Environmental Sciences, the Mylan School of Pharmacy, the National Science Foundation and the departments and faculty of the University.

Positions are available in biochemistry, biology, chemistry, environmental science, forensic science and law, pharmacy, or physics. The Bayer School faculty are committed to experiential education for their undergraduate students and seek junior colleagues to become members of their research teams. Students in the summer program participate in research, seminars, ethics forum, the Summer Research Symposium, and Community Service.

<http://www.duq.edu/academics/schools/natural-and-environmental-sciences/undergraduate-research>

Pitt – Center for Translational Mental Health Research – deadline Feb 10

The Undergraduate Research Program awards highly talented undergraduate students with fellowships to perform early-career, hands-on engagement in cutting edge neuroscience research. Research opportunities focus on schizophrenia and related disorders and are primarily translational in approach; that is, the research approach begins with clinical observations about the disease process that are converted into hypotheses that can be tested in the more tractable conditions of the laboratory in order to guide the development of novel therapeutic interventions.

http://www.ccnm.pitt.edu/pages/Training/ugradov_new.html

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2) *Some Summer Research Programs all over the U.S.*

U.S. Dept of Homeland Security: Summer Internship – Dec 7 (location varies)

The U.S. Department of Homeland Security (DHS) Science and Technology Directorate Office of University Programs sponsors a 10-week summer internship program for students majoring in homeland security related science, technology, engineering and mathematics (HS-STEM) disciplines. The program provides students with quality research experiences at federal research facilities located across the country and allows students the opportunity to establish connections with DHS professionals. It is open to undergraduate and graduate students in a broad spectrum of HS-STEM Disciplines and DHS mission-relevant Research Areas.

<http://www.orau.gov/dhseducation/internships/index.html>

U.S. Dept of Energy: Mickey Leland Energy Fellowship – Dec 30 (location varies)

The Mickey Leland Energy Fellowship (MLEF) Program provides students with fellowship opportunities to gain hands-on research experience with the Department of Energy's (DOE) Office of Fossil Energy. The MLEF program was created in 1995 with the goal of improving opportunities for under-represented students in the science, technology, engineering, and mathematics (STEM) fields; however, all eligible candidates are encouraged to apply.

The mission of the MLEF program is to strengthen a diverse pipeline of future STEM professionals, and this program has mentored several hundred of the best and brightest students from across the nation for future careers in STEM.

<http://orise.orau.gov/mlef/>

Harvard: Summer Research in Kidney Medicine – Dec 31 (Boston, MA)

The Harvard Summer Research Program in Kidney Medicine (HSRPKM) will offer a robust and varied introduction to the world of nephrology for the undergraduate college student who is considering a career in science or medicine. The Program will primarily be a research-based experience but will include a core curriculum that addresses the basic science and clinical fundamentals and challenges in the field. The Program will span the nephrology divisions of four Harvard-affiliated hospitals – Brigham and Women’s Hospital (BWH), Beth Israel Deaconess Medical Center (BIDMC), Boston’s Children’s Hospital (BCH) and Massachusetts General Hospital (MGH). The Program will run for 8 weeks each summer and will enroll 14 students per session.

<http://hskp.bwh.harvard.edu/program/>

Janelia Research Campus: Undergrad Scholars – Jan 6 (Ashburn, VA)

The Janelia Undergraduate Scholars program is a 10-week summer program aimed at well-prepared, independent, and committed students with significant research experience.

Janelia undergraduate scholars are among the very best future scientists, engineers, and mathematicians who are interested in exploring: Behavioral & Systems Neuroscience, Cellular & Molecular Neuroscience, Evolution & Genetics, Instrumentation & Computational Tool Development, Neuronal Cell Biology, Optical Physics & Imaging, Structural Biology & Biochemistry, Theory & Computational Neuroscience.

<https://www.janelia.org/you-janelia/students-postdocs/undergraduate-scholars-program>

Ohio State: SUCCESS Program – Jan 7 (Columbus, OH)

The Summer Undergraduate Course Creating Excellence in Scientific Study (SUCCESS) Program enables students to participate in a 10-week research experience hosted by the OSU Medical Scientist (MD-PhD) Training Program. Students will receive a stipend and housing, and will be provided an allowance for travel to and from Columbus. While taking part in this program, students will take valuable professional development courses and learn from engaged mentors, all while working in state-of-the-art research facilities.

SUCCESS seeks to identify outstanding students interested in the biomedical sciences with the goal of pursuing graduate education (MD/PhD or PhD). The program seeks to enhance and foster diversity in graduate study in the biomedical and biological sciences as reflected in culture, class, race, ethnicity, background, work, and life experiences.

<https://medicine.osu.edu/mstp/success-program/Pages/index.aspx>

Case Western Reserve: Undergrad Research in Pharmacology – Jan 31 (Cleveland, OH)

The Department of Pharmacology sponsors a summer research program designed to introduce college undergraduates to basic laboratory research. This 10-week program has been partially sponsored by American Society for Pharmacology and Experimental Therapeutics (ASPET, <https://www.aspet.org/awards/surf/>). Overall goal of the program is to provide students with background and skills essential for a career in pharmacological or basic science research. In addition, our program aims to establish an understanding of the commitment essential to successfully pursue a career in biomedical science.

<http://pharmacology.case.edu/education/surp.aspx>

Amgen Scholars – Feb 1 (location varies)

Every year, the Amgen Scholars U.S. Program provides hundreds of selected undergraduate students with the opportunity to engage in a hands-on research experience at many of the nation's premier educational institutions. Currently, 10 institutions in the U.S. host the summer research program. The Amgen Foundation has committed more than \$50 million over twelve years to the global Amgen Scholars Program to make this opportunity possible for thousands of students.

<http://www.amgenscholars.com/us-program>

Oregon Nat'l Primate Research Center: Sum. Fellowship – Feb 1 (Beaverton, OR)

The Oregon National Primate Research Center invites college undergraduates who are currently enrolled as sophomores or juniors in 4-year institutions to apply for the ONPRC Summer Fellowship Program.

Principal Investigators in the Divisions of Neuroscience, Reproductive & Developmental Sciences, and Pathobiology & Immunology oversee research programs related to high-priority medical needs that are expected to increase in importance and funding emphasis over the coming decades. These include research in neurodevelopment, neuroendocrinology, neurodegeneration, cancer, aging, mental illness, brain injury, addiction, obesity, reproductive health, immune response to infectious agents, and stem cells.

<http://www.ohsu.edu/xd/research/centers-institutes/onprc/public-education/undergraduate.cfm>

Albert Einstein College of Med: SURP – Feb 1 (Bronx, NY)

Each summer the Einstein Summer Undergraduate Research Program (SURP) brings together 50 college students each summer for a one-of-a-kind opportunity to conduct original research in a laboratory at one of the world's top-ranking scientific institutions.

SURP students arrive at Einstein in mid-June for an eight-week research laboratory work experience. Students are matched to a laboratory in the area of interest they indicate on their application. At the end of the program, students present their research in a poster session.

<https://www.einstein.yu.edu/education/phd/the-summer-undergrad-research-program.aspx>

UCLA Bioscience: SPUR-LABS – Feb 1 (Los Angeles, CA)

The UCLA Summer Program for Undergraduate Research – Life and Biomedical Sciences (SPUR-LABS) summer program provides a rigorous research training experience for undergraduates with interests in a broad range of bioscience disciplines—from molecules to organisms and from basic to translational science. Exceptional research training, integrated with professional development activities, will prepare students to succeed in leading Ph.D. and M.D./Ph.D. programs.

<http://bioscience.ucla.edu/spur-labs>

Drexel School of Biomedical Sciences: SURF – Feb 6 (Philadelphia, PA)

The Graduate School of Biomedical Sciences and Professional Studies awards 10-week Summer Undergraduate Research Fellowships (SURF) to undergraduate students wishing to explore biomedical research careers.

<http://www.drexel.edu/medicine/Research/Student-Research/Summer-Undergraduate-Research-Fellowship/>

Penn State College of Medicine: SURIP – Feb 8 (Hershey, PA)

The Summer Undergraduate Research Internship Program (SURIP) allows students to work in a basic or clinical research laboratory for a 10-week summer session in Hershey. Potential research includes bioinformatics, bioengineering, imaging, clinical research, and public health.

<http://med.psu.edu/surip>

Monterey Bay Research Institute: Summer Internship – Feb 13 (Moss Landing, CA)

The Monterey Bay Aquarium Research Institute's Summer Internship Program provides an opportunity for talented college students (undergraduate and graduate) and educators to come to MBARI for a period of 10 weeks to work on a specific project under MBARI staff supervision.

With state-of-the-art facilities and equipment that includes research vessels, remotely operated vehicles (ROVs), and autonomous underwater vehicles (AUVs) to explore the deep ocean, MBARI's Summer Internship Program offers teachers and students unique opportunities to be involved in advanced research and development projects.

<http://www.mbari.org/products/educational-resources/mbari-summer-internship-program/>

Georgia Tech: REU Aquatic Chemical Ecology – Feb 15 (Atlanta, GA)

Aquatic Chemical Ecology (ACE) at Georgia Tech is a new NSF-sponsored summer research program for undergraduates that places students with a faculty mentor for a 10 week summer period from late May - late July. (The dates are somewhat flexible.) While at Georgia Tech you'll design a research project, carry it out and present the results to the professors and students here at Georgia Tech in a final symposium. You'll go through this experience with others in this program as well as others here in Biology, so there'll be plenty of opportunity to swap tales, learn about how other groups do science, and explore Atlanta.

<http://biosci.gatech.edu/undergrad/reu>

Rocky Mtn Biological Laboratory: Summer REU – Feb 15 (Crested Butte, CO)

This summer, approximately 10 students will be accepted with REU Awards. Students receiving an REU award may participate in either full-time independent research or independent research/course, as described above. Students accepted through the Research Experience for Undergraduates (REU) program receive a \$5,250 stipend, free room, board

and travel. REU awards are restricted to students who are not only citizens or permanent residents of the United States, but also have not graduated from college before the dates of the program. Minorities underrepresented in the biological sciences are strongly encouraged to apply.

<http://www.rmbi.org/students/undergraduates-beyond/summer-education-programreu/>

Boston Univ: Summer Training as Research Scholars – Feb 15 (Boston, MA)

The Summer Training as Research Scholars (STaRS) Program is designed to promote access to graduate education for talented undergraduates from minority groups traditionally underrepresented in the biomedical sciences: African-American, Hispanic, Native American/Native Alaskan, and Pacific Islander/Native Hawaiian. During the ten week onsite summer internship, scholars will be mentored in the laboratory by faculty and group of lab members from the Division of Graduate Medical Sciences.

<http://www.bumc.bu.edu/gms/admissions/stars/>

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3) *Ways you can search for other Summer Research Programs*

A) Bulletin board in the Biological Sciences Advising Office (A258 Langley Hall)

B) The internet. Try key terms:

- "Summer undergraduate research"
- "SURF/SURP"

C) Other websites:

- Pitt Dept. of Biological Sciences List:
<http://www.biology.pitt.edu/undergraduate/research/outside-pitt>
- All Students: https://www.aamc.org/members/great/61052/great_summerlinks.html
- MD/PhD Interest Programs:
<https://www.aamc.org/members/great/169782/mdphdsummerprograms.html>
- Disadvantaged & Minority Students:
<http://www.naahp.org/Diversity/SummerOpportunities.aspx#530572-research>

Look for: Programs associated with a College, University, Medical School, or Government Agency. Be very careful about programs run by other organizations.