

**Finding  
Undergraduate  
Research  
Experiences &  
Summer REU's**



## Why Do Research?

### ***Educational Benefits Include:***

- Working closely with a faculty mentor
- Learning about issues, methods, and leaders in students' chosen fields
- Applying concepts learned in coursework to "real life" situations
- Sharpening problem-solving skills
- Learn to read primary literature

### ***Professional Benefits Include:***

- Exploring and preparing for future careers
- Developing marketable skills
- Enhancing professional communication skills
- Collaborating with others and working effectively as part of a team

### ***Personal Benefits Include:***

- Growing as a critical, analytical, and independent thinker
- Meeting challenges and demonstrating the ability to complete a project
- Discovering personal interests
- Developing internal standards of excellence

## How Do You Find a Research Position?

- Research Your Options
- Talk to Professors
- Use Your Resources!
  - UB Center for Undergraduate Research and Creative Activities (CURCA)  
<http://curca.buffalo.edu>
  - National Conferences on Undergraduate Research  
<http://www.ncur.org/students.htm>
  - WebGuru- Guide to Research for Undergraduates  
<http://www.webguru.neu.edu/index.php>

## Tips for a Successful Application

- Get organized!
- Follow directions and pay attention to the guidelines (especially deadlines)
- Demonstrate strong writing skills
- Your application reflects care (attention to detail, editing, completeness) (For tips and assistance with writing, check out UB's Center for Excellence in Writing (<http://www.buffalo.edu/cas/writing.html>))
- Focus your personal statement (reveal your interest in and motivation for research)
- Have strong letters of reference (be sure to contact references early and provide them with your information)
- Your application reflects your interest in the field of research

- Your professional goals are in line with program guidelines

#### UB Summer Research Opportunities

- **Collegiate Science and Technology Entry Program (CSTEP)**  
Shanna Crump-Owens, Director  
222 Norton Hall, 645-2002  
[sicrump@buffalo.edu](mailto:sicrump@buffalo.edu)  
<http://cpmc.buffalo.edu/cstep.html>
- **Hauptman-Woodward Medical Research Institute Summer Program**  
716-898-8600  
700 Ellicott St. Buffalo, NY 14203-1102  
[griffin@hwi.buffalo.edu](mailto:griffin@hwi.buffalo.edu)  
<http://www.hwi.buffalo.edu/outreach/internships.html>
- **LSAMP (Louis Stokes Alliance for Minority Participation)**  
Dr. Letitia Thomas, Regional Coordinator  
255 Capen Hall  
[lthomas@buffalo.edu](mailto:lthomas@buffalo.edu)  
<http://engineering.buffalo.edu/home/outreach/diversity/lkamp.html>
- **McNair Scholars Program**  
Dr. Susan Ott, Director  
220 Norton Hall, 645-5478  
[sjott@buffalo.edu](mailto:sjott@buffalo.edu)  
<http://ubetc.org/mcnairscholars>
- **Roswell Park Cancer Institute Summer Program**  
Dr. Adam Kisailus, 1-877-275-7724  
Elm and Carlton Streets, Buffalo, NY 14263  
[adam.kisailus@roswellpark.org](mailto:adam.kisailus@roswellpark.org)  
<https://www.roswellpark.edu/education/summer-programs> or  
[http://www.roswellpark.org/Site/Education/Summer\\_Programs/SummerResearchExperiencesforundergraduates\\_REU](http://www.roswellpark.org/Site/Education/Summer_Programs/SummerResearchExperiencesforundergraduates_REU)

#### Off-Campus Research Opportunities

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#### National Science Foundation- Research Experiences for Undergraduates (REU)

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#### SYNOPSIS

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects

designed especially for the purpose. This solicitation features two mechanisms for support of student research: (1) REU Sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department, or on interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. A partnership with the Department of Defense supports REU Sites in DoD-relevant research areas. (2) REU Supplements may be requested for ongoing NSF-funded research projects or may be included as a component of proposals for new or renewal NSF grants or cooperative agreements.

Undergraduate student participants in either Sites or Supplements must be citizens or permanent residents of the United States or its possessions.

Students apply directly to REU Sites. A directory of active REU Sites, along with contact information, can be found on the Web at

[http://www.nsf.gov/crssprgm/reu/reu\\_search.cfm](http://www.nsf.gov/crssprgm/reu/reu_search.cfm)

### **Sampling of Research Areas**

Astronomical Sciences  
Atmospheric Sciences  
Biological Sciences  
Chemistry  
Computer and Information Science and Engineering  
Department of Defense (DoD)  
Earth Sciences  
Education and Human Resources  
Engineering  
Ethics and Values Studies  
International Science and Engineering  
Materials Research  
Mathematical Sciences  
Ocean Sciences  
Physics  
Polar Programs  
Social, Behavioral, and Economic Sciences

## Arts & Humanities:

**Note:** this is just a sampling; students should work with Faculty in their Department & Academic Advisors to identify other summer experience opportunities.

- Academy of Television Arts and Sciences Foundation Student Internship Program
  - <http://www.emmys.com/internship>
- Alden Dow Creativity Fellowship Program
  - <http://www.artisttrust.org/node/6551>
- Alvin Ailey American Dance Theater Summer Intensive Program
  - <http://www.theaileyschool.edu/ailey-school/professional-division/programs/summer-intensive-program>
- American Dance Festival Summer Internships
  - <http://www.americandancefestival.org/internships/internships.html>
- Bates Dance Festival Three-Week Professional Training Program and Internship Program
  - <http://abacus.bates.edu/dancefest/internships.php>
- Collegiate Inventors Competition
  - <http://www.invent.org/Collegiate/overview.html>
- Fund for American Studies, Institute on Philanthropy and Voluntary Service
  - <http://www.dcinternships.org/>
- George Mason University Institute for Humane Studies Fellowships
  - <http://www.theihs.org/programs/humane-studies-fellowships>
- Glimmerglass Opera Summer Internships
  - <http://www.glimmerglass.org/about/internships.html>
- Institute for Humane Studies Summer Seminars and Young Communicators Fellowships
  - <http://www.theihs.org/node/116>
- Institute for Recruitment of Teachers
  - <https://irt.andover.edu/>

- Jacob's Pillow Dance Festival Intern Program
  - <https://www.jacobspillow.org/school/intern-programs/summer-festival-intern-program/>
- Metropolitan Museum of Art Internship Program
  - [http://www.metmuseum.org/education/er\\_internship.asp](http://www.metmuseum.org/education/er_internship.asp)
- Multicultural Undergraduate Summer Internships at the Getty Center
  - [http://www.getty.edu/grants/education/multicultural\\_getty.html](http://www.getty.edu/grants/education/multicultural_getty.html)
- Smithsonian Institution Minority Student and Native American Awards Program
  - <https://www.smithsonianofi.com/fellowship-opportunities/native-american-visiting-student-awards/>
- Smithsonian Institution Opportunities for Research and Study
  - <https://www.smithsonianofi.com/sors-introduction/>
- Student Conservation Association (SCA) Expense-Paid Conservation Internships
  - <https://www.thesca.org/serve/internships>
- University Film and Video Association Carole Fielding Student Grants
  - <http://www.aie.org/Scholarships/detail.cfm?!ID=6800>
- University of Michigan Rackham Summer Research Opportunity Program
  - <http://www.rackham.umich.edu/srop>
- University of Michigan's Health Management Summer Enrichment Program
  - <http://www.sph.umich.edu/sep/>
- Washington Post, Journalism Internships
  - <http://www.internationalreportingproject.org/gatekeepers/program/program1.htm?gclid=ClfvxKm1k5YCFReSQAodLjF5EA>

## **Behavioral & Social Sciences**

**Note:** this is just a sampling; students should work with Faculty in their Department & Academic Advisors to identify other summer experience opportunities.

- American Enterprise Institute for Public Policy Research
  - [http://www.aei.org/about/filter\\_contentID.20038142214000059/default.asp](http://www.aei.org/about/filter_contentID.20038142214000059/default.asp)
- American Geological Institute (AGI) Government Affairs Program. (AGI/AIPG)
  - <http://www.agiweb.org/gap/interns/internsu.html>
- American Political Science Association Ralph Bunche Summer Institute
  - <http://www.apsanet.org/rbsi>
- American Rivers
  - <https://www.americanrivers.org/>
- American Sociological Association (ASA) Minority Research Fellowship
  - <http://www.asanet.org/funding/mfp.cfm>
- AT&T Research and Internship Opportunities
  - <http://www.research.att.com/internships>
- Baxter Internship Programs
  - <http://www.baxter.com/careers/programs/healthcare-internships-co-ops.page>
- Brookings Institute Summer Internship Opportunities
  - <https://www.brookings.edu/about-the-brookings-tsinghua-center-for-public-policy/jobs-and-internships/>
- California Senate Fellows
  - <http://www.csus.edu/calst/senate/>

- **California State University, Sacramento - Jesse M. Unruh Assembly Fellowship Program**
  - <http://www.csus.edu/calst/assembly/>
- California State University, Sacramento - Judicial Administration Fellowship Program
  - <http://www.csus.edu/calst/judicial/>
- Carnegie Endowment for International Peace
  - <http://www.carnegieendowment.org/>
- Center for Science in the Public Interest: Public Interest Internship Program
  - <http://www.cspinet.org/about/jobs/200801042.html>
- Center for Strategic and Budgetary Assessments
  - <http://csbaonline.org/>
- Center for Strategic and International Studies (CSIS)
  - <http://www.csis.org/>
- Center on Budget and Policy Priorities Internship Program
  - <http://www.cbpp.org/careers/intern>
- Children's Defense Fund Internship Opportunities
  - <http://www.childrensdefense.org/about-us/join-our-team/internship-program/>
- Common Cause
  - <http://www.commoncause.org/about/opportunities/internships/?referrer=https://www.google.com/>
- Congressional Hispanic Caucus Institute, Inc. (CHCI) - Public Policy Fellowship Program
  - [http://chci.org/programs/public\\_policy\\_fellowship/](http://chci.org/programs/public_policy_fellowship/)
- Congressional Hispanic Caucus Institute, Inc. (CHCI) Congressional Internship
  - <http://www.chci.org/internships>
- County of Orange Volunteer/Intern position
  - <http://www.ocgov.com/gov/volunteer/>



- Environmental Protection Agency's National Network for Environmental Management Studies
  - <http://www.epa.gov/enviroed/students.html>
- FBI, Honors Internship Program
  - <https://www.fbijobs.gov/students/undergrad>
- Federal Reserve Undergraduate Project Internships
  - <https://www.federalreserve.gov/careers-internships.htm>
- Foreign Policy Research Institute
  - <http://www.fpri.org/>
- Fund for American Studies - American Institute on Political and Economic Systems
  - <http://www.tfasinternational.org/aipes/about/>
- Fund for American Studies - Capital Semester Academic & Internship Program
  - <http://www.dcinternships.org/cs/about>
- Fund for American Studies - Engalitcheff Institute on Comparative Political & Economic Systems
  - <http://www.dcinternships.org/icpes/about/>
- Fund for American Studies - The Bryce Harlow Institute on Business and Government Affairs
  - <http://www.dcinternships.org/programs/business-and-government-affairs/>
- Fund for American Studies, Institute on Philanthropy and Voluntary Service
  - <http://www.dcinternships.org/programs/philanthropy-and-voluntary-service/>
- Harvard University's Harvard Forest Summer Research Program in Ecology
  - <http://harvardforest.fas.harvard.edu/education/reu/reu.html>
- Institute for Humane Studies Summer Seminars
  - <https://theihs.org/seminars-conferences/summer-seminars/>
- Institute for Humane Studies Young Communicators Fellowships
  - <https://theihs.org/>
- Institute for Humane Studies, Charles G. Koch Summer Fellow Program
  - <https://www.charleskochinstitute.org/professional-education/semester-long-opportunities/koch-fellow-program-policy/>
- Institute of Ecosystem Studies
  - <http://www.ecostudies.org/reu.html>

## National Academy of Social Insurance Internships

- [http://www.nasi.org/info-url\\_nocat3815/info-url\\_nocat.htm](http://www.nasi.org/info-url_nocat3815/info-url_nocat.htm)
- National Science Foundation REU Sites--Social, Behavioral, and Economic Sciences
  - [http://www.nsf.gov/crssprgm/reu/list\\_result.cfm?unitid=5054](http://www.nsf.gov/crssprgm/reu/list_result.cfm?unitid=5054)
- REU Field School in Archaeology at New Philadelphia
  - <http://www.histarch.uiuc.edu/NSF/fieldschool.html>
- Smithsonian Center for Materials Research and Education, Archaeological Conservation Program Internships
  - [http://www.si.edu/mci/english/professional\\_development/fellowships\\_internships.html](http://www.si.edu/mci/english/professional_development/fellowships_internships.html)
- The American Economic Association Summer Program and Minority Scholarship Program
  - <https://www.aeaweb.org/about-aea/committees/aeasp>
- U.C. Berkeley Public Policy and International Affairs (UC-PPIA) Summer Institute
  - <http://gspp.berkeley.edu/ppia/index.html>
- U.S. Department of Homeland Security (DHS) HS-STEM Summer Internship Program
  - <https://www.orau.gov/dhseducation/internships/>
- U.S. Department of State Summer Internship Program
  - <http://www.state.gov/m/a/c15164.htm>
- University of Maryland Summer Research Initiative, College of Behavioral & Social Sciences
  - <https://bsos.umd.edu/diversity/landingtopic/summer-research-initiative>
- University of Michigan's Health Management Summer Enrichment Program
  - <https://sph.umich.edu/sep/>

## Sciences

**Note:** this is just a sampling; students should work with Faculty in their Department & Academic Advisors to identify other summer experience opportunities.

- Duke University Department of Biology- Fellowships and Summer Research Opportunities
  - This site lists opportunities both within and outside of Duke for many different fields of biological science and medicine
  - <https://biology.duke.edu/undergraduate/current-students/research-independent-study/summer-opportunities>
- American Society for Microbiology, Microbiology Undergraduate Research Fellowship
  - <https://www.asm.org/index.php/grants/25-education/students/7827-asm-undergraduate-research-fellowship-asm-urf>
- American Society for Pharmacology and Experimental Therapeutics Summer Undergraduate Research Fellowship Program
  - <http://www.aspet.org/awards/SURF/>
- Association of Public Health Laboratories Emerging Infectious Diseases Laboratory Fellowship Program
  - <https://www.aphl.org/fellowships/Pages/default.aspx>
- Carnegie Institute of Washington Geophysical Laboratory Summer Intern Program
  - <https://carnegiescience.edu/careers-internships>
- Center for Food Safety Internship Opportunities
  - <http://www.centerforfoodsafety.org/.cfm>
- Council on Undergraduate Research, Summer Undergraduate Fellowships
  - [http://www.cur.org/projects\\_and\\_services/summer\\_undergraduate\\_research\\_fellowships/](http://www.cur.org/projects_and_services/summer_undergraduate_research_fellowships/)
- Maryland Sea Grant College NSF Research Experiences for Undergraduates in Marine Research
  - <http://www.mdsg.umd.edu/programs/research/reu/>

- National Aeronautics and Space Administration
  - Cooperative Education Program,
  - [https://www.nasa.gov/offices/education/programs/descriptions/NASA\\_Cooperative\\_Education\\_Project.html](https://www.nasa.gov/offices/education/programs/descriptions/NASA_Cooperative_Education_Project.html)
- National Institutes of Health, Research and Training Opportunities at the NIH
  - <https://www.nih.gov/research-training>
- National Institute of Standards and Technology , Summer Undergraduate Research Fellowship
  - <https://www.nist.gov/surf>
- National Science Foundation, Research Experiences for Undergraduates Program (REU)
  - [https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5517&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund)
- Smithsonian Astrophysical Observatory , Summer Intern Program
  - <https://www.cfa.harvard.edu/opportunities/reu//REU.html>
- Smithsonian Environmental Research Center , Internship Program in Environmental Studies
  - [https://serc.si.edu/pro\\_training/internships/projectmenu.aspx](https://serc.si.edu/pro_training/internships/projectmenu.aspx)
- Smithsonian National Museum of Natural History, Research Training Program
  - [https://naturalhistory.si.edu/getinvolved/participate\\_learn.htm](https://naturalhistory.si.edu/getinvolved/participate_learn.htm)
- Smithsonian National Zoological Park, Internships and Fellowships
  - <https://nationalzoo.si.edu/careers/internships>
- Smithsonian Tropical Research Institute , Internship Opportunities
  - [http://stri.org/english/education\\_fellowships/internships/index.php](http://stri.org/english/education_fellowships/internships/index.php)
- University Corporation for Atmospheric Research , Significant Opportunities in Atmospheric Research and Science
  - <http://www.soars.ucar.edu/>

## **Medicine and Pharmacy**

**Note:** this is just a sampling; students should work with Faculty in their Department & Academic Advisors to identify other summer experience opportunities.

- Association of American Medical Colleges- GREAT Group Educational Links- Summer Undergraduate Research Programs
  - Link to a list of over 30 institutions and their summer research opportunities related to medicine and pharmaceutical sciences:
    - [https://www.aamc.org/members/great/61052/great\\_summerlinks.html](https://www.aamc.org/members/great/61052/great_summerlinks.html)

- Duke University Department of Biology- Fellowships and Summer Research Opportunities
  - This site lists opportunities both within and outside of Duke for many different fields of biological science and medicine
    - <https://biology.duke.edu/undergraduate/current-students/research-independent-study/summer-opportunities>
- Loyola University, Microbiology and Immunology Undergraduate Summer Research Program
  - <http://www.stitch.luc.edu/lumen/deptwebs/microbio/summer/details.php>
- Mount Sinai Center for Multicultural and Community Affairs, Summer Research Fellowship Program
  - <http://www.mssm.edu/about-us/diversity/programs/summer-research-fellowship-program>
- Ohio University Summer Undergraduate Research Fellowship, College of Osteopathic Medicine
  - <http://www.oucom.ohiou.edu/Admissions/surfprog.htm>
- Penn State College of Medicine, Summer Undergraduate Research Internship Program
  - <http://www.hmc.psu.edu/summerresearch/>
- University of California, San Francisco, School of Pharmacy Summer Research Training Program
  - <https://graduate.ucsf.edu/srtp>
- UK College of Pharmacy Summer Research Programs
  - <http://pharmacy.uky.edu/graduate-program-pharmaceutical-sciences/summer-research-program>
- University of Utah, Department of Pharmaceutics and Pharmaceutical Chemistry, Summer Undergraduate Research Admissions
  - <http://www.pharmacy.utah.edu/pharmaceutics/surfAdmission.html>
- Washington State University, Summer Undergraduate Research Fellowships
  - <http://universitycollege.wsu.edu/units/undergraduateresearch/programs-funding/>
- National Institute of Environmental Health Sciences, Summer Opportunities
  - <https://www.niehs.nih.gov/careers/research/summers/>
- University of Cincinnati, Summer Undergraduate Research Fellowships, Biomedicine
  - <http://www.med.uc.edu/SURF/>