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## Research Opportunities for Undergraduate Students

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# Research Opportunities for Undergraduate Students

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Research is a cardinal activity responsible for enriching the experiences of undergraduate students by broadening worldviews, allowing for personal and educational growth, and the development of transferable skills. As such, we have compiled a list of national, state, and local research opportunities for undergraduate students to apply to. For more information on these programs and their specific application requirements, please visit the website links listed.

## NATIONAL PROGRAMS

**Program:** Research Experiences for Undergraduates (REU)

This program, funded by the National Science Foundation, gives research opportunities to undergraduate students through its REU sites program. Students can search for an REU site in the research discipline of their interest. Each discipline has multiple programs listed in different locations across the United States. Interested students can apply through the specific program site. While each program has its own specific details and requirements, all applicants must be US citizens or permanent residents. It can be expected that most experiences will take place during the summer with stipends of varying amounts offered.

Website: [https://www.nsf.gov/crssprgm/reu/reu\\_search.jsp](https://www.nsf.gov/crssprgm/reu/reu_search.jsp)

**Program:** National Undergraduate Research Project (NSURP)

NSURP is a community initiative to provide research opportunities for BIPOC and LatinX undergraduates. This 8-week program matches students to microbiology, immunology, and cancer biology lab mentors. Students work through a remote-work summer research project under

their mentors' guidance and are provided with a science and professional development seminar series. During the program, students work full time, 40 hours per week (\$600 a week). To be eligible, applicants must be BIPOC/LatinX students enrolled in a US college.

Website: <https://nsurp.org/>

**Program:** National Institute of Health Summer Internship Program (NIH SIP)

This program with the NIH is an opportunity to work alongside leading scientists in a research setting. Students accepted into this program have the chance to conduct research within numerous disciplines, including behavioral and social sciences, biology, chemistry, physics, mathematical modeling, computational biology, and biostatistics. Program participants are expected to work a minimum of 8 full-time weeks throughout the summer; varying stipends are provided. To be eligible for this program, applicants must be 17 years and older, US citizens or permanent residents, and enrolled at least half-time in an accredited college or university.

Website: <https://www.training.nih.gov/programs/sip>

The NIH offers additional research opportunities, a list of which can be found at this link: <https://www.training.nih.gov/programs>

## STATE PROGRAMS

**Program:** Pharmaceutical Sciences Summer Research Program (University of Kentucky College of Pharmacy)

This program is a ten-week paid laboratory experience during the summer for undergraduate students interested in gaining research in medicinal, bioorganic & computational chemistry; pharmaceutical chemistry & engineering; and pharmacology & experimental therapeutics. This program is recommended for students pursuing a major in Pharmaceutical Sciences, Chemistry, Chemical Engineering, Biology, or other Life sciences. A varying stipend is provided for participants who must be undergraduates past their Junior year (or highly qualified Sophomores) to be eligible.

Website: <https://pharmacy.uky.edu/office-research-operations/summer-research-program>

**Program:** Kentucky INBRE Summer Undergraduate Research Program

KY INBRE allows Kentucky students to participate in biomedical research on the University of Louisville or University of Kentucky campus and present their research at the Kentucky Academy of Science Annual Meeting. This summer program provides \$4000 compensation, dormitory lodging as needed, and travel expenses to present at the Kentucky Academy of Science Meeting. To be eligible, applicants must be over 18, US citizens/permanent

residents, enrolled at a Kentucky college (with the exception of the University of Louisville and the University of Kentucky), or a Kentucky resident attending an out-of-state college.

Website: <https://louisville.edu/research/kbrin/kbrin-cores/mentoring/undergraduates/opportunities/summer-program/>

## UNIVERSITY OF LOUISVILLE PROGRAMS

**Program:** Summer Research Opportunity Program (SROP)

SROP is a ten-week undergraduate summer research experience in a department offering graduate degrees. Students selected for this program must identify a research mentor that will provide the student with an individualized research project culminating in a poster presentation of their work on Research Day. The program will provide group seminars on research and graduate education topics. A \$3500 living allowance is provided for the ten-week program duration in addition to \$100 for poster printing. Students, preferably past their sophomore year of undergraduate study, are encouraged.

Website: <https://louisville.edu/provost/ug-research/srop>

**Program:** NCI Cancer Education Program

The NCI cancer education program recruits and educates students to pursue training and a future career in cancer research. Students are either paired with or can find a faculty member at UofL conducting research relevant to cancer. This summer program lasts ten weeks, at the end of which students are expected to present their findings through a poster presentation at Research! Louisville. Student subsistence allowance is up to \$4750 for professional and undergraduate students, with additional funds provided to students from outside the Louisville metropolitan area for travel expenses. Further, up to \$1000/

for poster production and research supplies is provided. To be eligible, participants must be US citizens/permanent residents enrolled in a degree program.

Website: <https://louisville.edu/medicine/departments/pharmacology/research/nci-r25-cancer-education>

**Program:** Undergraduate Summer Program in Cardiovascular Research

This ten-week summer program for under-represented and under-served students focuses on cardiovascular research. The program offers a deeper look into biomedical research and allows participants to present their research at the University of Louisville's local research forum, with the possibility of funding for regional or national meetings. Students are expected to write a one-page paper about their experience to be given to the program director. Additionally, a \$4000 stipend is provided for expenses. Applicants must be past their sophomore year of undergraduate study.

Website: <https://louisville.edu/medicine/departments/physiology/summer-cardiovascular-program-information>