Undergraduate Research Opportunities

https://www.unl.edu/physics/student-research

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UCARE: Undergraduate Creative Activities and Research Experience at UNL

Highlights

• The UCARE program (https://ucare.unl.edu) is a paid opportunity for undergraduates to work one-on-one with a faculty research advisor;

• UCARE helps undergraduates learn how to conduct research or creative projects under the guidance of the world-class UNL faculty members;

• Fellowships for both academic-year and summer projects;

• Contact: Justina Clark, 402-472-6023, jclark17@unl.edu. for more information.

Eligibility

• Full-time student enrollment in an undergraduate degree program at UNL;

• Completed 30 credit hours of undergraduate work by next May;

• GPA of 2.75 or higher;

• Work with a faculty member who is willing to serve as a faculty research advisor.
UCARE: Undergraduate Creative Activities and Research Experience at UNL

Summer Research

- Application Deadline: **February 10** for Summer 2020
- UCARE participants receive a $2400 research stipend;
- Requires a 20-hour commitment per week for 10 weeks.
- Talk to the UCARE office about how to identify and approach a prospective faculty advisor and prepare a strong application.

Academic year research: September – April

- Application Deadline: **March 2** for Academic Year 2019-2020
- Requires a 10-hour commitment per week for both semesters.
- Student participants in the UCARE program receive a $2,400 research stipend.
- Talk to the UCARE office about how to identify and approach a prospective faculty advisor and prepare a strong application.
REU Nebraska Summer Research Programs

• The Office of Graduate Studies supports the Nebraska Summer Research Program by partnering with faculty and departments to offer NSF-funded Research Experience for Undergraduates (REU).

• **National Science Foundation Research Experiences for Undergraduates (NSF-REU);** This program ([https://www.nsf.gov/crssprgm/reu/reu_search.jsp](https://www.nsf.gov/crssprgm/reu/reu_search.jsp)) allows students to choose from one of 19 topics, such as:
  - Physics
  - Optics and Lasers
  - NanoScience
  - Astronomical Sciences

• Summer REU programs typically have deadlines in February and March and selection in March and April.

• Application Deadline: **February 1** for Summer 2019 programs

• Contact: Justina Clark, 402-472-6023, jclark17@unl.edu
Energy Sciences Research Summer Internship

- **Nebraska Center for Energy Sciences Research**
- This program provides summer fellowships of up to $5000 for summer research working with UN research labs
- Consult with a faculty research mentor before preparing an application
- Application Deadline: **January 31** for Summer Internships

([http://ncesr.unl.edu/?page_id=9451](http://ncesr.unl.edu/?page_id=9451))
The Research Fair focuses on showcasing research and creative accomplishments by UNL undergraduate and graduate students.

Participate in the UNL Research Fairs held in Spring and Fall each year
- Fall – Early November
- Spring – Mid April

Present a poster about your research project (advance application required)

[http://research.unl.edu/springresearchfair](http://research.unl.edu/springresearchfair)
Research Fellowships (https://www.unl.edu/physics/student-research)

- Apply directly to Physics and Astronomy Faculty
- **No Deadline**, but it is best to inquire in advance
- Use this handy application form
  https://www.unl.edu/physics/docs/2018-Research-Application.doc

Teaching Fellowships

- Positions available for
  - Introductory Physics Laboratory Instructor
    Contact palab@unl.edu *
  - Introductory Astronomy Teaching Assistant
    Contact paoffice@unl.edu *
- **No Deadline**, but it is best to apply at least a month before the start of classes

* Or, inquire at the Departmental Office (JH 208)
Outside of UNL
Research Experiences for Undergraduates (REU) in the United States

**National Science Foundation REU Search Tool**
(https://www.nsf.gov/crssprgm/reu/reu_search.jsp)
Choose from over 725 internship opportunities across the country
Application Deadlines *vary*

NASA Internships, Fellowships, and Scholarships include a wide range of opportunities for summer and academic year internships with NASA Programs. **NASA Pathways Programs** include internship and recruitment opportunities potentially leading to careers with NASA.
Application Deadlines *vary*

**American Physical Society Internships and Fellowships**
The Internships and Fellowships-American Physical Society page has a number of programs such as the LIGO Institute, The Smithsonian Minority Awards and Internships, the SRI International, and more.
Application Deadlines *vary*
Research Experiences for Undergraduates (REU) Outside of UNL

**Department of Energy Science Undergraduate Laboratory Internships (SULI)**
https://science.osti.gov/wdts/suli
Over 600 internships at 17 DOE Laboratories
Application Deadline: *January 9*

**Department of Energy Scholars Program**
https://orise.orau.gov/doescholars/
Over 600 internships at 17 DOE Laboratories
Application Deadline: *January 3*

**Department of Defense STEM Internships** (https://www.opm.gov/policy-data-oversight/hiring-information/students-recent-graduates/#url=intern)
Programs ranging from the Air Force Rome Laboratory to the National Security Agency. Over 40 programs.
Application Deadlines: *vary*
International Research Experiences for Undergraduates

- **Europe** – EuroScholars Program (http://euroscholars.eu/)

- **France** – University of Michigan Optics in the City of Light REU (http://java.engin.umich.edu/ParisREU/)

- **Germany** – ACS International Research Experience for Undergraduates (IREU) Program (https://global.acs.org/global-programs/global-undergraduate-programs/international-research-experience-for-undergrads-ireu/)

- **Germany** – Research Internships in Science and Engineering (https://www.daad.de/rise/en/)

- **Germany** – RWTH Aachen Summer Exchange Program (http://www.oie.gatech.edu/content/germany-rwth-aachen-summer-exchange-program)

- **Singapore** – Amegen Scholars (http://amgenscholars.com/japan-program)

- **Switzerland** – ThinkSwiss Research Scholarships (http://thinkswiss.tumblr.com/About)

- **Italy, Japan, United Kingdom** – American Chemical Society (ACS) International Research Experience for Undergraduates (IREU) Program (https://global.acs.org/global-programs/global-undergraduate-programs/ireu-details-on-research-outside-the-u-s/)

- **CERN** (particle physics laboratory in Geneva) – Summer Student Program (https://home.cern/summer-student-programme)

All: Application Deadlines *vary*
Databases for International REU Opportunities

• **IIEPassport** ([http://iiepassport.org](http://iiepassport.org)) – This site mainly lists study abroad opportunities but also has information on research abroad opportunities;

• **StudyAbroad.com** ([http://www.studyabroad.com](http://www.studyabroad.com)) – This site mainly lists study abroad opportunities but also has information on research abroad opportunities;

• **Lexia Study Abroad** ([http://www.lexiaintl.org](http://www.lexiaintl.org)) – Many of the opportunities here have research project components or field research projects as part of the curriculum.

[https://www.unl.edu/physics/student-research](https://www.unl.edu/physics/student-research)