

# Research and Experiential Learning Opportunities at Doane University



**DOANE**  
UNIVERSITY

**Doane University students interested in Science, Technology, Engineering and Mathematics (STEM) fields have access to the following extraordinary opportunities!**

## S-STEM

In 2022, Doane University received a 1.5 million dollar grant to provide scholarships to academically gifted students with unmet financial needs interested in STEM fields.

### *About the Program:*

- Starting in the 2023, ten incoming first-year students will be chosen as S-STEM scholars.

### *Scholars will receive the following benefits:*

- Up to **\$7,800 in annual scholarship**
- Living in a STEM community

### *To be eligible students must*

- Declare a major in either Biology, Biochemistry, Chemistry, Engineering, or Natural Resources and Environmental Science
- Show financial need and be Pell eligible
- Have a 3.2 cumulative GPA in high school



Email: [kristopher.williams@doane.edu](mailto:kristopher.williams@doane.edu)

Website: [web.doane.edu/success](http://web.doane.edu/success)



## INBRE Scholar Program

INBRE is a prestigious, intensive research experience for students who are interested in biomedical research.

### *About the program:*

- INBRE is an NIH funded, nationally recognized research program
- Each year Doane University selects three sophomore students to serve as INBRE scholars during their junior and senior years
- Scholars will conduct research at both a research focused institution and at Doane University over two summers and two academic years.
- Previous Doane INBRE scholars have gone on to attend prestigious graduate schools across the nation

### *Through the INBRE program students:*

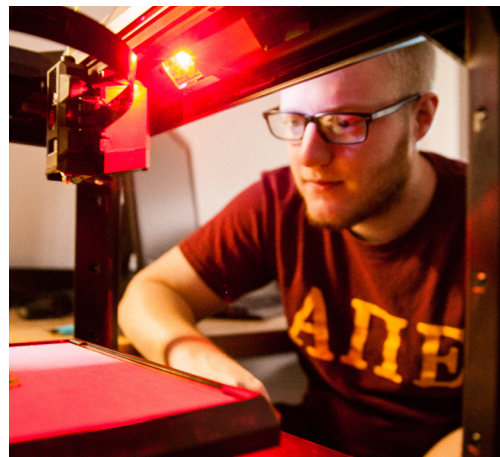
- Learn to do cutting edge biomedical research
- Gain access Nebraska INBRE core facilities for free to enhance your research project.
- Present their work at the NE-INBRE Annual Conference
- Earn a substantial amount of money by participating- totaling in **\$16,500** in stipends and housing allowance

Email: [dane.bowder@doane.edu](mailto:dane.bowder@doane.edu)

**IRES-** IRES is an NSF funded collaborative research program between Doane University and two German research institutions, Karlsruhe Institute of Technology (KIT) and the University of Bayreuth (UBT).

**About the program:**

- Each year Doane University selects three IRES scholars to participate in a year long research project with our collaborators at KIT and UBT.
- Scholars will **travel to Germany** to conduct 8 weeks of cutting-edge research in the field of nanomaterials and molecular electronics.
- Scholars will work with faculty to prepare both scientifically and culturally for the trip.



**Students will receive:**

- **\$4k** in summer research stipend and an additional stipend to continue research back at Doane.
- Free travel, lodging and dining while in Germany (benefits totaling near **\$6k**)
- Mentorship and professional development from world-renowned scientists and engineers

Email: [chris.huber@doane.edu](mailto:chris.huber@doane.edu)

**LSAMP-** The Louis Stokes Alliances for Minority Participation (LSAMP) program is designed to significantly increase the quality and quantity of minorities who successfully complete baccalaureate degrees in STEM, and to increase the number of minority students who continue on to graduate studies in these fields.

**About the Program:**

- The LSAMP program places particular emphasis in support of groups that are historically underrepresented in STEM disciplines: African-Americans, Alaskan Natives, American Indians, Hispanic Americans, Native Hawaiians, and Native Pacific Islanders.

**Opportunities provided by LSAMP program:**

- Paid summer undergraduate research with a faculty mentor during the summer.
- Funds to attend/present at STEM related conferences.
- Organized campus visits to colleges and universities that offer STEM graduate programs.
- Networking with LSAMP partners including industry, national research laboratories, and State and Federal agencies.
- Funds to attended annual INSPIRE conference (available for any STEM major)

Email: [guadalupe.leon@doane.edu](mailto:guadalupe.leon@doane.edu)

## DIVAS

The DIVAS project is a NSF-funded program to provide an "on-ramp" for natural science students, to enable them to use computing in their research at Doane and in their future careers. This is done by teaching students how to use image processing and computer vision.

- Students participate in an intensive workshop to learn Python programming and introductory image process
- Students work closely with faculty to practice their skills on a variety of authentic research questions
- No previous programming experience is required!

Email: [tessa.durhambrooks@doane.edu](mailto:tessa.durhambrooks@doane.edu)

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