



Summer Authentic Research Experiences (SARE) for Idaho 2-yr and 4-yr Colleges

Genes by Environment: Modeling, Mechanisms, and Mapping (GEM3)

COVID-19 STATEMENT: There is considerable uncertainty about planning for summer programming at this time due to the current Coronavirus situation. Our ability to award and implement summer research experiences will be contingent upon identifying projects that will be in compliance with all local and institutional COVID-19 guidance and restrictions. Please be aware that this application process in no way guarantees the availability of SARE this year.

Introduction: Idaho's Established Program to Stimulate Competitive Research ([EPSCoR](#)) is seeking student and faculty applicants for summer student research experiences as part of an Idaho-wide National Science Foundation (NSF) funded program focused on Linking Genome to Phenome to Predict Adaptive Responses of Organisms to Changing Landscapes. Research projects can be led by faculty from an Idaho university or faculty from 2-yr and 4-yr colleges. In most cases, research projects will be directed by faculty at the students' home institution.

This NSF EPSCoR project, known as Genes by Environment: Modeling, Mechanisms, and Mapping ([GEM3](#)), supports three complementary workforce development and education initiatives designed to increase the number, diversity and preparation of skilled scientists and engineers in STEM fields in Idaho:

- **Lab Modules** (learn more about lab modules [here](#) or fill out an [interest form](#))
- **Vertically Integrated Projects (VIP)** courses (learn more about VIP [here](#) or contact Stephanie Sevigny at stephanieseigny@boisestate.edu).

⇒ **Summer Authentic Research Experiences (SARE)**

SARE Summary: Summer Authentic Research Experiences (SARE) is designed to engage Idaho undergraduates in the science, technology, engineering, and mathematics (STEM) fields related to GEM3 research and increase the number, diversity and preparation of skilled scientists and engineers in GEM3 fields (bioinformatics, computational biology, conservation genetics, ecosystem management, environmental science, and social science).

Each student receives hands-on, paid (**up to \$4,000**) summer research experiences (full-time or part-time positions available), where they study topics broadly related to the GEM3 project. The novelty of the approach is the statewide integration of the GEM3 research, and opportunities for undergraduate students to network across the institutions through research team interactions, data collection, fieldwork (e.g., participating in focus groups designed to assess land and water management), and research activities (e.g., support for Unmanned Aircraft Systems flights, field work, and modeling).

SARE Eligibility: All Idaho STEM faculty, and students currently enrolled at an Idaho academic institution, are eligible. GEM3 especially seeks to increase the participation of students from underrepresented groups in STEM (underrepresented minorities (URM), primarily Hispanics and Native Americans), low-income, rural and/or first-generation students, and women in Idaho's STEM enterprise. SARE provides students with an intensive laboratory and/or field experience, while creating an important bridge between academic year education and between institutions.

Idaho 2-yr and 4-yr Colleges: Idaho EPSCoR strongly encourages participation of students and faculty from Idaho's 2-yr and 4-yr colleges. **Funding is also available for faculty from 2-yr and 4-yr colleges** who would like to lead a research project; thus, an application to serve as a research mentor or co-mentor with a university faculty member for a SARE student will also serve as an application for funding. Funding includes one month of summer salary and fringe benefits.

SARE Selection and Placement:

- We encourage students to visit with faculty to discuss potential projects and to help with the placement process.
- Faculty who wish to host SARE students should apply and submit their research description by February 28, 2021 (*closes April 1, 2021*). Positions will be posted on the GEM3 website for student applicants to review. ***Please note that only faculty are allowed to apply. Graduate students and Postdocs interested in hosting a SARE student must have a supervising faculty member apply on their behalf.*
- Students will be required to complete a short SARE application.
- Students who wish to apply for a paid SARE position can apply at the following link beginning on March 1, 2021 (*closes May 1, 2021*). Positions are open until filled; review of applications will begin March 10, 2021.
- There are up to 14 paid positions available for Idaho 2-yr and 4-yr college students for summer 2021.
- Positions will range from full-time (approximately 330 hours) to a quarter time (approximately 80 hours) during summer 2021, for a total of up to \$4,000. Exact start dates and schedules will be determined by the research faculty supervisor.
- Up to \$500 will be provided to the faculty supervisor for research supplies and/or student travel.

Related Opportunities/Requirements: As part of the SARE experience, students will be required to present research results via poster presentation at the [Idaho Conference on Undergraduate Research \(ICUR\)](#) or during the Idaho NSF EPSCoR Annual Meeting. Both events provide an opportunity to attend research related workshops and network with students and faculty.

How to Apply: SARE applications for faculty and undergraduate students are available online [here](#). Please contact institutional leads if you have any questions:

- Boise State University: Dr. Donna Llewellyn (donnallewellyn@boisestate.edu)
- University of Idaho: Dr. Melinda Davis (melindadavis@uidaho.edu)
- Idaho State University: Dr. Janet Loxterman (loxtjane@isu.edu)
- Idaho 2-yr and 4-yr Colleges: Stephanie Sevigny (stephanieseigny@boisestate.edu)



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