

Undergraduate Research Opportunities

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SESE offers undergraduate students opportunities to participate in various research projects under the guidance of faculty and researchers. Some current opportunities are listed below.

NASA Space Grant

The [ASU/NASA Space Grant Program](#) awards approximately 20-30 undergraduate students from science, technology, engineering, and mathematics (STEM) fields for the academic year. Awardees are paid stipends with a value of \$1,600 per semester. Applicants must be U.S. citizens and full-time students at ASU, sophomore or higher, with a cumulative GPA of 2.8 or higher. Undergraduate Fellows work on a research project alongside upper-level graduate students, diverse faculty members, as well as scientists and engineers. Space Grant supports undergraduates by giving them opportunities to earn money while gaining valuable experience participating in research projects and educational outreach activities. Applications from women and underrepresented groups are also encouraged.

In addition their project, Space Grant undergraduate awardees are required to:

- Complete 20 hours of (unpaid) Informal Education
- Participate in the annual ASU/NASA Space Grant poster session
- Present at the Arizona Space Grant Consortium Undergraduate Research Symposium

Undergraduate Fellowship applications are available each spring for the following academic year with a mid-May due date. Students are highly encouraged to have a faculty mentor selected prior to submitting an application. For those students without a faculty mentor, we have suggestions about how to find one on our Space Grant site. Please refer to <https://nasa.asu.edu/content/undergraduate-information> for more information. You can also be notified when applications are available by signing up for email notification at <https://nasa.asu.edu/application-notification-list>.

Hydrologic Science and Engineering

Our research group is seeking undergraduates to assist in the development and execution of several research projects in hydrologic science and engineering. Funding for these positions comes from the Army Research Office, the National Oceanographic and Atmospheric Administration, the National Science Foundation and the National Aeronautics and Space Administration. Please [click here](#) for details on the three positions available or visit <http://vivoni.asu.edu/undergraduateopportunities.html>.

Submit a research opportunity

If you have a research project in which undergraduates can participate, please click the button below. Please provide a brief description of the project as well as a name and contact information for interested students.

[Submit a research opportunity](#)

Undergraduate Student Perspective

Leon Manfredi



Research summary and role: The Circum-Hellas Volcanic Province (CHVP) on Mars is thought to be the oldest example of point source volcanism on the planet. Using daytime-infrared images acquired by the THEMIS camera on board the Mars Odyssey spacecraft, mosaics were constructed of several regions surrounding the CHVP that appear to be volcanic in origin. Crater counts were then performed on these surfaces to determine if they are temporally related to known volcanism in the CHVP. Cratering model formation ages for these surfaces, 3.4-3.8 Ga, are similar to those of the volcanoes within the CHVP, 3.6-3.8 Ga. This research is significant because determining the age and extent of the CHVP may provide clues as to when and why there was a transition from fissure eruptions to point source volcanism.

ASU School of Earth and
Space Exploration
Arizona State University

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