The Undergraduate Radiochemistry Summer School is sponsored by the U.S. Department of Energy’s Office of Nuclear Energy and hosted by the Oregon State University School of Nuclear Science and Engineering and the Department of Chemistry in Corvallis, Oregon.

The six week summer school will focus on the fundamentals of radiochemistry with an emphasis on the back end of the nuclear fuel cycle. Undergraduate students in chemistry, physics, engineering, health physics and related disciplines are invited to apply.

**Description**

Blending classwork and labwork, students will learn the physics of nuclear structure, radioactive decay and nuclear reactions, principles of radiodetection, chemistry of actinides and fission products, production and separation of radionuclides, and radiolytic effects. The nuclear fuel cycle will be presented from fundamental chemistry to engineering applications.

Students will benefit from the expertise of guest lecturers from national labs and academic partners who will present throughout the summer school. Four of the six weeks are also devoted to independent research projects under the guidance of our faculty. Students will present their results at a student conference at the end of the summer school.

In addition, students will visit Richland, Washington for tours of the AREVA, Energy Northwest, and Hanford Site facilities. Students will also tour the Oregon State TRIGA Reactor and NuScale facilities in Corvallis.

Upon satisfactory completion of the summer school, participating students will receive eight transferable radiochemistry credits at the 400 level. Students are expected to participate in all coursework, research and tours.

**Apply (ne.oregonstate.edu/radiochemistryschool)**

- Applicants must be U.S. Citizens.
- 12 students will be selected and will be provided with a $4,000 stipend as well as coverage of housing and travel costs.
- Application requires a statement of interest, resume, transcript (unofficial acceptable) and letter of recommendation.
- Applications are due April 20, 2016 with acceptance notification by April 29, 2016.
- Rising seniors are preferred, but all applications will be reviewed.

**Contact**

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