

Midwest Reactor Sharing Consortium

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Program: Reactor Sharing

ABSTRACT:

The objective of this proposal is to share the resources and capabilities of the University of Wisconsin Nuclear Reactor (UWNR) with the community to increase nuclear science, engineering, and technology awareness.

The specific goals of this proposal are to:

- Strengthen the nuclear science and engineering instruction at the collaborating partner university user institutions who do not possess a nuclear reactor.
- Increase opportunities for collaboration among faculty and students at the University of Wisconsin - Madison and the collaborating user institutions.
- Improve public awareness and understanding of nuclear science, engineering and technology through visits to the UWNR.
- Engage with communities to promote nuclear science engineering and technology to recruit the next generation nuclear energy workforce.

These goals will be accomplished by providing:

- A multi-day nuclear science seminar with the collaborating partner university user institutions during the J-term or winter recess focusing on reactor operational demonstrations and counting experiments to familiarize the students to the reactor and various counting equipment.
- Weekend reactor laboratory short courses with the collaborating partner university user institutions.
- Remote reactor-based measurements laboratories synchronously with UW-Madison reactor laboratory course offerings.
- Weekend teacher workshops for continuing education credit for Wisconsin math and science teachers in middle and high schools.
- Tours of the UWNR for high schools user institutions to promote nuclear science engineering and technology.