

SNAPSHOT.

DEPARTMENT OF NUCLEAR ENGINEERING & ENGINEERING PHYSICS





Since the U.S. Department of Energy's Nuclear Energy University Program began more than a decade ago, UW-Madison has been the

largest recipient of research funding. Those research projects place us at the forefront of advanced reactor technology development and have led to collaborations with many companies developing novel reactor designs, including TerraPower, NuScale, General Atomics, Kairos, and Terrestrial Energy.



Our alumni have a long history in important technical leadership positions across multiple

industries. Whether at the helm of the nation's largest fleet of nuclear power plants, serving as commissioner in the US Nuclear Regulatory Commission, holding positions appointed by the president, or founding their own companies, our alumni are saving this planet and exploring the rest.

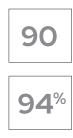
We are among a handful universities who still maintain a nuclear reactor, not only for research, but as a

"classroom" for our nuclear engineering students. For them, watching a reactor pulse—the flash of light caused by ejecting a control rod and allowing the reactor to rapidly increase in power—is an exhilarating experience.



Our department is known for its impressive array of nation- and worldleading fusion research

facilities, and for its collaborations with even larger facilities around the world. Students routinely complete their research on some of most important facilities in the world, including DIII-D and W/7-X.



3

Undergraduate students licensed by the Nuclear Regulatory Commission to operate the UW nuclear reactor (as of 2022).

EP majors that go on to graduate school after completing their BS.

UW-Madison spinoff companies: Realta Fusion, Type One Energy, SHINE Technologies

STUDENT ENROLLMENT

57 UNDERGRADUATE Nuclear engineering



73 GRADUATE Nuclear engineering and engineering physics NATIONAL PUBLIC RANKING

according to U.S. News & World Report

2nd GRADUATE

Undergraduate nuclear engineering programs are no longer ranked. Our undergraduate program historically has been ranked in top 3 nationally.

DEGREES OFFERED

STARTING SALARIES*

BS

- Engineering Physics
- Nuclear Engineering

MS

Nuclear Engineering and Engineering Physics

PhDNuclear Engineering and Engineering Physics

\$70,000+ UNDERGRADUATE

\$98,000+ GRADUATE

*approximate per year



AREAS OF EMPHASIS IN THE GRADUATE PROGRAM

Nuclear systems engineering

Research in radiation transport and neutronics, materials science and engineering, and thermal-hydraulics, as well as risk analysis and systems integration studies for fission reactors, fusion systems, and medical applications of nuclear technology.

Plasma science and engineering

Emphasizes high temperature plasmas for fusion energy applications (both magnetic and inertial), low temperature plasmas for industrial applications, such as plasma processing and plasma aided manufacturing, and basic plasma physics.

RESEARCH AREAS

Experimental plasma physics

Plasma theory and computation

Nuclear materials

Nuclear systems

Energy transitions, policy, and security

RESEARCH FACILITIES

Max Carbon Radiation Science Center

- UW Nuclear Reactor
- Ion Beam Laboratory
- Characterization Lab for Irradiated
 Materials

Pegasus-III Fusion Experiment

Helically Symmetric eXperiment (HSX)

Center for Plasma Theory and Computation

Institute for Nuclear Energy Systems

Nanoscale Imaging and Analysis Center

DEPARTMENT CHAIR



Paul Wilson Professor of Nuclear Engineering and Department Chair

(608) 263-0807 chair@ep.wisc.edu



Visit us on the web.



Department of Nuclear Engineering & Engineering Physics UNIVERSITY OF WISCONSIN-MADISON