NPRE 2018 Overview

Enrollment, Fall 2018
123 Undergraduates - NPRE
95 Graduate Students - NPRE
30 Graduate Students - Master of Engineering, Energy Systems

Degrees Granted
(August 2017-May 2018)
37 Bachelor of Science Degrees
16 Master of Science Degrees
15 Master of Engineering Degrees
16 Doctor of Philosophy Degrees

Graduate Student Support
55 Research Assistants
7 Teaching Assistants
5 Graduate Assistants
11 Combined RA/TA/GA
4 DOE, 2 NSF 2 NRC Fellowships
8 Internal College/Department Fellowships
1 International Fellowship

Faculty
15 FTE Faculty
(6 Assistant, 3 Associate, 6 Full Professors)
2 Open Tenure-track Positions
2 Endowed Professorships
1 Research Professor
7 Affiliate, 14 Adjunct Faculty
4 Emeritus

Growth and Recognitions
Faculty doubled since 2011.
Two open tenure-track positions.

2018 National Honors/Awards
- ANS Fellow
- ANS Mark Mills Award
- ANS Arthur Holly Compton Award
- ANS Landis Public Comm and Ed Award
- ANS FED Tech Achievement Award
- ANS Radiation Sci and Tech Award
- SPIE Senior Member

Previous Years Awards, Honors
9 ANS/IEEE/APS/AVS Fellows
9 ANS Mark Mills Award

Research Centers and Laboratories, and Initiatives
- Center for Plasma-Material Interactions
- Computational Plasma Physics Lab
- Functional X-ray Imaging Lab (FXIL)
- HIDRA (tokomak/stellarator)
- High Temperature Corrosion Lab
- High Temperature Nuclear Materials Lab
- Magnetron Sputtering Lab
- Multiphase Thermo-Fluid Dynamics Lab
- Neutron Metrology Lab
- Radiation Detection & Imaging Lab

- Radiological Instrumentation Lab
- Radiation Surface Science and Engineering Lab
- Socio-Technical Risk Analysis (SoTeRa) Lab
- Soft Robotics & Artificial Intelligence Lab
- Virtual Education and Research Lab
- Micro and Nanotechnology Lab
- Seitz Materials Research Lab
- Beckman Institute for Adv Sci & Tech
- Blue Waters Sustained Petascale Computing

Instructional and Research Areas
Three paths for undergraduate concentration:
- Nuclear Power, Safety, Environment, and Reliability/Risk
- Plasma and Fusion Science and Engineering
- Radiological, Medical and Instrument Applications

Graduate research is broadly classified in five areas:
- Nuclear Power (reactor physics, thermalhydraulics, fuel cycle, radiation transport, I&C)
- Plasma and Fusion (modeling, plasma-material interactions)
- Radiological Sciences (detectors, imaging, health physics, medical applications)
- Material Science (nuclear fuels, structural materials)
- Risk and Policy (PRA, safety, energy, arms controls, disarmament, security)