



STUDENTS

Degrees Granted 2021-22

23	Bachelor of Science
11	Master of Science
9	Master of Engineering
10	Doctor of Philosophy

Enrollment Fall 2022

127	Undergrads
101	Grad Students (MS/PhD)
25	MEng. (Energy Systems)
16	MEng. (Plasma Eng.)

RESEARCH AREAS

Nuclear Power (*reactor physics, thermohydraulics, fuel cycle, radiation transport, instrumentation & control*)

Plasma and Fusion (*modeling, plasma-material interactions*)

Radiological Sciences (*detectors, imaging, health physics, medical applications*)

Materials Science (*nuclear fuels, structural materials*)

Reliability & Risk (*probabilistic risk analysis, safety, arms controls, disarmament, security*)

\$8.9 M

FY22 Sponsored Research
Expenditures

GROWTH & RECOGNITIONS

- NPRE held a ribbon cutting in September 2022 for the addition to Talbot Laboratory, which includes two new labs (**Undergraduate Materials Testing Lab** and **Nuclear Futures Teaching Lab**), a conference room and a new administrative suite.
- Professor **James Stubbins** (Mishima Award) and associate professor **Caleb Brooks** (Landis Young Member Achievement Award) received national ANS awards.
- Associate professor **Zahra Mohaghegh** served as a member of the Committee on Transport Airplane Risk Assessment Methodology of the **U.S. National Academies of Sciences, Engineering, and Medicine**.
- The UIUC student chapter of the **American Nuclear Society** hosted the national conference in 2022 and placed second in the Glasstone Award for outstanding chapter.
- NPRE has added **Scott Dubowsky (IPI)** and **Elena Maria Zannoni (radiological)** to the staff as research scientists and promoted **Seyed Reihani** to senior research scientist.
- UIUC is currently home to **6** Nuclear Energy University Program graduate fellows.
- Graduate student **Amanda Bachmann** received a presidential citation from the American Nuclear Society.

LABS

Beckman Institute for Advanced Science and Technology | **Center for Plasma-Material Interactions** | Computational Plasma Physics Lab | **Extreme Robotics Lab** | Functional X-Ray Imaging Lab (FXIL) | **HIDRA (tokamak/stellarator)** | High Temperature Corrosion Lab | **High Temperature Nuclear Materials Lab** | Illinois Plasma Institute | **Magnetron Sputtering Lab** | Materials Research Lab | **Multiphase Thermo-Fluid Dynamics Lab** | National Center for Supercomputing Applications | **Neutron Metrology Lab** | Nick Holonyak Micro and Nanotechnology Lab | **Nuclear Futures Teaching Lab** | Nuclear Materials Lab | **Radiation Detection & Imaging Lab** | Radiation Surface Science and Engineering Lab | **Radiological Instrumentation Lab** | Socio-Technical Risk Analysis (SoTeRiA) Lab | **Virtual Education and Research Lab**

FACULTY

13	FTE Faculty (<i>multiple open faculty positions</i>)
3	Endowed Professorships
2	Research Professors
22	Affiliate/Adjunct Faculty
5	Emeritus

Nuclear, Plasma & Radiological Engineering

THE GRAINGER COLLEGE OF ENGINEERING

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**New teaching
and research labs
in NPRE**

