BRIEF HISTORY OF NERS

1952  | 1958  | 1965  | 1995
Graduate program in Nuclear Engineering created | Nuclear Engineering established | Undergraduate program created | Name changed to Nuclear Engineering & Radiological Sciences

FACULTY

28 tenured, tenure track faculty (9/1/18)
- 2 assistants (1 joint appointment)
- 2 associates
- 24 full professors (2 joint appointments)
13 faculty hired since 2006
1 Presidential Postdoctoral Fellow

14 research scientists
- 1 full + 1 full adjunct
- 7 assistants
- 5 associates (1 joint)

5 emeritus faculty, 12 adjunct faculty, and 14 postdoctoral fellows

3 National Academy of Engineering Members
2 E.O. Lawrence Award Winners
4 ANS Arthur Holly Compton Awardees
1 Vannevar Bush Award
1 National Medal of Technology

STUDENTS

DEGREES OFFERED
- Nuclear Engineering & Radiological Sciences | BSE, MS, MSE, PhD

DEGREES GRANTED (09/01/17 - 08/31/18)
- 38 BSE (24 NERS, 14 Engineering Physics)
- 23 MS/MSE (11 continuing PhD program)
- 18 PhD degrees

GRADUATE STUDENT SUPPORT
- 70 graduate student research assistants
- 8 DOE fellowships
- 3 internal fellowships
- 5 graduate student instructors
- 3 NSF fellowships
- 19 other fellowships (GEM, NRC, NPSC, NANT, SMART, ANS, CVT)

FALL 2018 ENROLLMENTS
- 140 graduate students (114 PhD; 26MS)
- 113 undergraduate students (66 NERS; 47 Engineering Physics)

INSTRUCTIONAL and RESEARCH AREAS

Instructional and Research Areas
Fission systems, Radiation transport, thermal hydraulics multiphase flow • Plasma physics and fusion • Materials • Measurements, nuclear nonproliferation

Laboratories
Detection for Nuclear Nonproliferation Laboratory • Experimental and Computational Multiphase Flow Lab (ECMF) • High Field Science Laboratories (CUOS) • High Temperature Corrosion Laboratory (HTCL) • Irradiated Materials Testing Complex (IMTL) • Materials Preparation Laboratory • MCASL Center • Metastable Materials Laboratory • Michigan Ion Beam Laboratory • Neutron Science Laboratory • Plasma, Pulsed Power, and Microwave Laboratory • Plasma Science and Technology Laboratory • Position Sensing Semiconductor Radiation Detector Lab • Radiation Detection Laboratory • Radiation Effects and Nanomaterials Laboratory • Radiation Imaging Laboratory • Radiological Health Engineering Laboratory

Major Research Collaborations
CASL—Consortium for Advanced Simulation of Light Water Reactors (with ORNL, Sandia, INL, LANL, Westinghouse, EPRI, TVA, NCSU and MIT)

Consortium for Verification Technology (CVT)
(UM lead, MIT, Princeton Univ, Columbia Univ, NCSU, UH, Duke Univ, UW, UF, Oregon St., Yale Univ, UIUC, LANL, LLNL, SNL, INL, ORNL, PNNL, LBNL, PPPL)

High Fidelity Simulation of High Dose Neutron Irradiation
(UM lead, UT, Penn St., UW, US Carolina, UCB, UCSB, ORNL, LANL, LLNL, ANL, INL, Terrapower, EPRI, Univ of Manchester, Oxford Univ, Areva, U Queens, CEA)

Research Expenditures
$24M Fiscal 2018 External Sponsored and Internal Research
$12.4M Nuclear Engineering Laboratory (completed)

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