**BRIEF HISTORY OF NERS**

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

**FACULTY**

- 27 tenured, tenure track faculty (1/1/17)
  - 2 assistants (1 joint appointment)
  - 3 associates
  - 22 full professors (2 joint appointments)
- 12 faculty hired since 2006
- 1 Presidential Postdoctoral Fellow
- 11 research scientists
  - 1 full
  - 7 assistants
  - 3 associates
- 5 emeritus faculty, 11 adjunct faculty,
- 15 postdoctoral fellows
- 2 National Academy of Engineering Members

**STUDENTS**

- **DEGREES OFFERED**
  - Nuclear Science | MS, PhD
  - Nuclear Engineering & Radiological Sciences | BSE, MSE, PhD
- **DEGREES GRANTED** (09/01/15 - 08/31/16)
  - 38 BSE (includes 10 Engineering Physics)
  - 30 MS/MSI (18 continuing PhD program)
  - 25 PhD

**GRADUATE STUDENT SUPPORT**

- 74 graduate student research assistants
- 17 DOE fellowships
- 11 internal fellowships
- 6 graduate student instructors
- 5 NSF fellowships
- 24 other fellowships (GEM, NRC, NPSC, NANT, SMART, ANS, CVT)

**FALL 2016 ENROLLMENTS**

- 127 graduate students (95 PhD; 32 MS)
- 101 undergraduate students (68 NERS; 31 Engineering Physics)

**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**

- $22M Fiscal Year 2016
- $12.4M Nuclear Engineering Laboratory under construction