2016 Program Overview

Brief History
- Department founded in 1957
- Produced over 1400 graduates in 58 years

2016 Graduates
- 81 Total (30 BS, 35 MS, 16 PhD)

2016-2017 Enrollment
- 349 Total (214 BS, 26 MS, 109 PhD)

Graduate Student Funding
- 5 UT Chancellor’s Fellows
- 17 Graduate Teaching Assistants
- 70 Graduate Research Assistants
- 22 DOE/DHS (NEUP, NNSA, NFGF, CIRE)
- 4 Other (GEM, NANT, ESPN, NASA)

Support Staff
- 7 Clerical and 2 Technical

FY 2016 Research
- Expenditures = $10.8 million ($634K per FTE)

Research Focus Areas
- Nuclear Fuels and Materials
- Nuclear Security
- Radiological Sciences and Health Physics
- Nuclear I&C, Reliability, and Safety
- Prognostics, Reliability, and Control Laboratory
- PWR Simulator (hardware and software)
- Radiochemistry and Nuclear Forensics Laboratory
- Ion Beam Materials Laboratory (IBML)
- Micro-Processing Research Facility
- UT/ORNL Joint Institute for Advanced Materials

Knoxville Campus Research Facilities
- Parallel Computing through Newton and local Beowulf clusters
- Heat Transfer and Fluid Flow Measurements Laboratory
- Data Acquisition and Instrument Characterization Laboratory
- Nuclear Fusion Technology
- Nuclear Fuel Cycles
- Advanced Modeling and Simulation

Oak Ridge Campus Research Facilities (nearby at ORNL)
- 85 MW High Flux Isotope Reactor (HFIR)
- Spallation Neutron Source (SNS)
- Radiochemical Engineering Development Center (REDC)
- Titan Supercomputer (world’s 2nd most powerful Supercomputer)
- Nuclear Safeguards Laboratory
- Low Activation Materials Development & Analysis (LAMDA)
- Center for Radiation Detection Materials and Systems (CRDMS)

Research Collaboration with Centers of Excellence
- Y-12 National Security Complex
- Reliability and Maintainability Center
- Scintillation Materials Research Center
- Thompson Cancer Survival Center
- Consortium for Advanced Simulation of Light Water Reactors
- Provision Center for Proton Therapy
- Institute for Nuclear Security

For more information, see our website at http://ne.utk.edu/ or contact us at utne@utk.edu

10 of our 14 NEUP Undergraduate Scholarship Recipients.

UTNE study abroad students conducting reactor experiments at the Czech Technical University in Prague.