# 2015 Program Overview

## Brief History
- Department founded in 1957
- Produced over 1300 graduates in the past 57 years

## 2014 Graduates
- 77 Total (40 BS, 28 MS, 9 PhD)

## 2015 Enrollment
- 336 Total (202 BS, 29 MS, 105 PhD)

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

## Faculty
- 17 Tenure/Tenure Track Faculty (5 Asst, 4 Assoc, 8 Full)
- 3 Governor’s Chairs
- 1 UT Chancellor’s Professor
- 1 National Academy of Engineering, Member
- 4 ORNL Based Joint Faculty
- 20 Research Faculty (5 Full Time)
- 25 Adjunct Faculty
- 9 Post Doc Fellows

## Support Staff
- 7 Clerical and 2 Technical

## FY 2015 Research
- Expenditures = $10.4 million ($613K per FTE)

## Research Focus Areas
- Nuclear Fuels and Materials
- Nuclear Security
- Radiological Sciences and Health Physics
- Nuclear I&C, Reliability, and Safety
- Nuclear Fusion Technology
- Nuclear Fuel Cycles
- Advanced Modeling and Simulation

## 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
- Prognostics, Reliability, and Control Laboratory
- PWR Simulator (hardware and software)
- Radiochemistry and Nuclear Forensics Laboratory
- Ion Beam Materials Laboratory (IBML)
- Micro-Processing Research Facility

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

## 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

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UT-ORNL Governor’s Chair for Computational Nuclear Engineering Brian Wirth, right, receives a plaque from U.S. Department of Energy Secretary Ernest Moniz, center, honoring him as an Ernest Orlando Lawrence Award recipient. John Kotek, acting Assistant Secretary for Nuclear Energy, is at left. (Photo courtesy the Department of Energy)

Congrats to ANS Student Section on the Glasstone Award!

For more information, see our website at [www.engr.utk.edu/nuclear](http://www.engr.utk.edu/nuclear) or contact us at [utne@tennessee.edu](mailto:utne@tennessee.edu)