Nuclear Engineering Program

Nuclear Engineering (Graduate Program) Ranks 22th in U.S. News & World Report

Degrees Offered:
- M.S. & Ph.D.  
  Mechanical and Nuclear Engineering
- B.S. (ABET Accreditation)  
  Mechanical Engineering with a 
  Nuclear Concentration

Degrees Awarded (2018-2019):
- Bachelors - 10
- Masters - 23
- Doctorates - 6

Enrollment:
- Graduate Students  
  59 full time & 50 part-time
- Undergraduate Students - 56
- Faculty Profile:  
  27 full time faculty with 
  7 NE Program faculty  
  6 tenure-track
  1 non-tenure track

Research
Focus areas:
- Radiation Processing & Nuclear Materials
- Reactor Physics and Multiphysics
- Thermal Hydraulics & Advanced Reactor Design
- Nuclear Security and Non-Proliferation
- Nuclear Fuel Cycle, Reprocessing and Salt Chemistry
- Material Properties in Extreme Environments  
  produced by Effects of Nuclear Weapons.

Sponsored by:
- Nuclear Regulatory Commission, U.S. Department of Energy,  
  Defense Threat Reduction Agency, 
  Industry (Dominion Energy & Newport News), 
  U.S. National Laboratories

Nuclear Engineering Educational & Research Laboratories
- Computational Applied Reactor Physics Lab
- Computational Energy-Material-Interaction Lab
- Fluids in Advanced Systems and Technology Research Group
- NanoNuclear Engineering Lab
- Nuclear Security and Nonproliferation Lab
- Nuclear Reactor Simulator Lab
- Radiation Detection and Measurement Lab
- Radiochemistry Lab & Laser Spectroscopy Lab  
  (Molten Salt Research Group)

Fellowship and Scholarship Opportunities
- Nuclear Energy University Programs
- National Nuclear Security Administration
- American Nuclear Society
- Dominion Energy Scholarships

Awards
- 2019 DOE-IUP Scholarship
- 2020 ANS National Scholarships
- 2020 Roy G. Post Foundation Scholarship

Contact:
Dr. Supathon Phongikaroon, sphongikaroon@vcu.edu
Dr. Lane Carasik, lbcarasik@vcu.edu