



South Carolina State University

Nuclear Engineering Program

Accredited by the
Engineering Accreditation Commission (EAC)
of ABET (www.abet.org)

Program Partners



The SC State University Nuclear Engineering (NE) program

in collaboration with

North Carolina State University



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The University of Wisconsin - Madison



Quick Facts



- Bachelor of Science in Nuclear Engineering
- Accredited by EAC of ABET (www.abet.org)
- Began in 2002 to expand the presence of minorities in Nuclear Science and Engineering
- Leverages articulations with NC State University and the University of Wisconsin - Madison

Quick Facts (cont.)



- The only undergraduate NE program in the state of South Carolina
- The only NE program at an HBCU
- Has produced over 75 graduates as of May 2019

Alumni Highlights



Slavica Grdanovska 08'
Ph.D – University of Maryland
December 2015

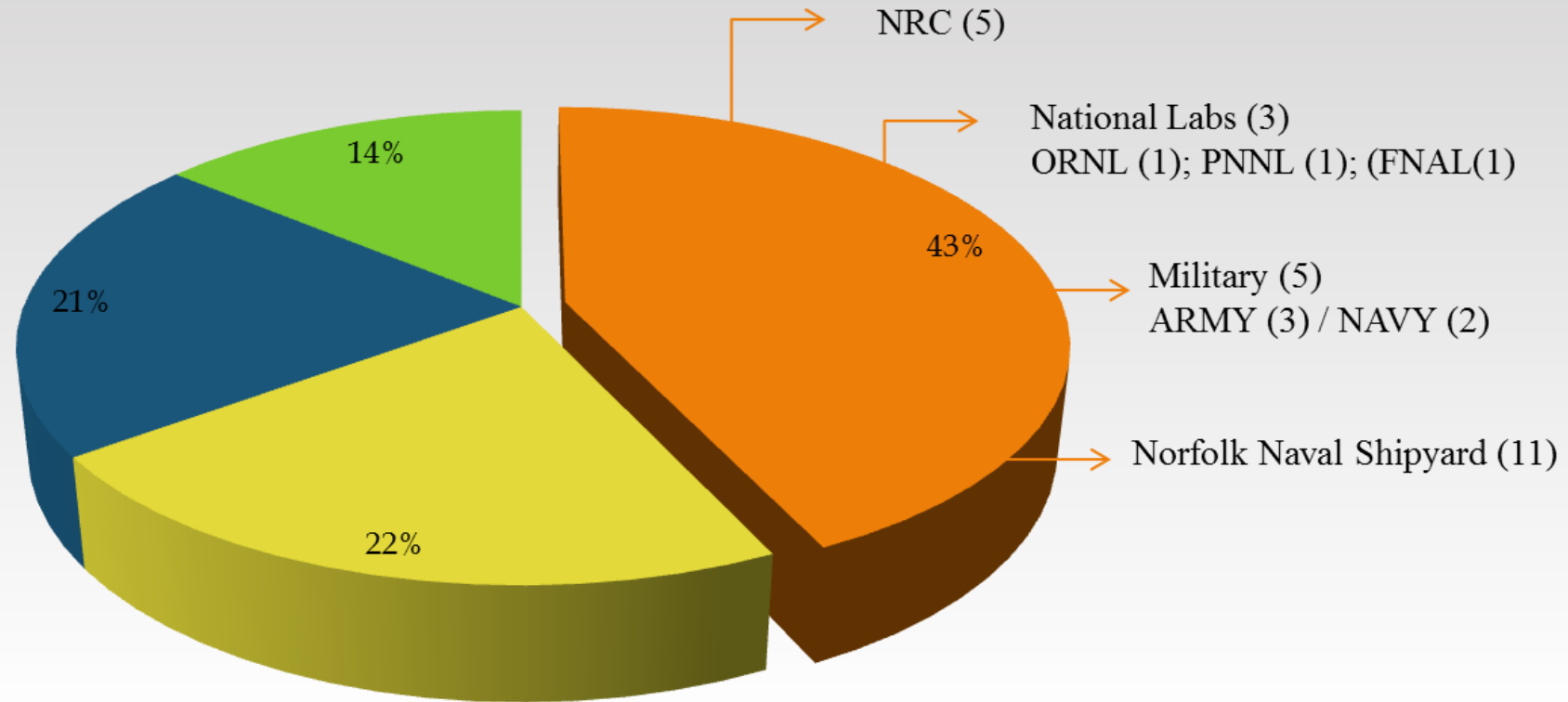
Currently at Fermi National Laboratory



Crystal Ann Green 14'
Ph.D – University of Michigan
March 2019

Beginning postdoctoral research in
Imaging Physics at Duke Medical
Center – July 2019

Job Placement



- Government (NRC, National Labs, Military)
- Utilities
- Private Co.
- Graduate School

Applied Radiation Sciences Laboratory



Dr. Musa Danjaji training students on the use of gamma detectors in the ARSL

Major Instruments in Applied Radiation Sciences Laboratory			
Type of Instrument	QTY	Manufacturer	Comments
N210/NBC G-M Counters	10	Sain Gobain Crystal	Coupled with ST360 radiation counters
NaI(Tl) detectors	10	Canberra	With Genie 2000 spectrum analysis software
HPGe detector	1	Canberra	Has high energy resolution cooled by an electric cooler
Alpha analyzer	1	Canberra	For detection of alpha emitters such as 235U, 232Th, etc.
Cd-Zn-Te gamma detector	1	eV-products	Working in room temperature
LaBr3 gamma detectors	2	Ortec	Coupled with Maestro
Liquid scintillation and gamma counters	2	Triathler 425-034	Small and suitable for clinic and field investigation, with pulse shape discrimination function
Liquid Scintillation Analyzer (LSA)	1	PerkinElmer Tri-Carb 2900TR	Can conduct more precise analysis and automatically analyze hundred samples at one time. Has pulse-shape discrimination function
Computer workstation	12	Dell, HP, and Gateway	Installed with Genie 2000, ST360, and Maestro for nuclear counting and spectrum analysis



South Carolina State University

“Transformation Through Collaboration”