

Update September 2019 NSE PEOs (Nuclear Engineering)

Depth. In their jobs and/or graduate studies, *graduates will identify, formulate, analyze and solve nuclear science and engineering problems by applying fundamental and advanced scientific and technical knowledge and skills.*

Breadth. *Graduates will employ their broad understanding of complex systems and individual components in their technical practice. Breadth also includes a continuing awareness of current issues, influences, and trends needed to understand the impact of nuclear science and engineering solutions in global and societal contexts.*

Professionalism. To be successful in modern work environments, *graduates will employ responsible teamwork, clear communication skills, effective project management capabilities, professional attitudes, and a clear understanding of the ethical issues faced by our profession. Graduates will engage in lifelong learning and professional development, as demonstrated by participation in technical seminars, professional conferences and symposiums, and discipline specific trainings.*

Problem Solving. In their jobs and/or advanced degree programs, *graduates will integrate their knowledge and skills to solve real-world problems. They will use technical insight and judgment to design and evaluate nuclear and radiological systems considering safety, reliability, security, economics and societal impact.*

Community. *Graduates will exist within a professional community, will provide for their own professional growth and development, and have a responsibility to contribute to the growth and development of their colleagues. They will do so while engaging the community in an inclusive and equitable manner.*

Innovation. *Graduates will apply their technical abilities and engage in innovative activities, creating new products, processes and knowledge.*