



## Steve Skutnik

Assistant Professor of  
Nuclear Engineering



Steve Skutnik joined the faculty of the University of Tennessee Department of Nuclear Engineering as an Assistant Professor in August 2012.

Dr. Skutnik's research interests include:

- Reactor physics modeling and simulation for nuclear security applications
- Development of advanced methods for fuel cycle evaluation and assessment

He received his B.S. in Physics and M.S. in Nuclear Physics from Iowa State University in 2002 and 2005, respectively, and his Ph.D. in Nuclear Engineering from North Carolina State University in 2011.

From 2011 to 2012, he has worked as a post-doctoral research associate at Oak Ridge National Laboratory, where he served as a lead developer on the ORIGEN-S nuclear fuel depletion package (part of the SCALE code system). A major focus of his research work was in developing novel methods for high-fidelity evaluation of spent fuel assemblies in support of the development of new non-destructive assay (NDA) techniques for the evaluation of spent fuel fissile material content (particularly plutonium).

In addition to his research work, Dr. Skutnik also served as an adjunct Assistant Professor of Nuclear Engineering at North Carolina State University, where he taught a newly-developed course on nuclear nonproliferation and international safeguards technology and policy. This course was developed jointly in collaboration with the University of Tennessee and Oak Ridge National Laboratory with support from the NNSA Next Generation Safeguards Initiative.

In 2011, Dr. Skutnik received the J.D. Williams Memorial Award for best student paper at the 52nd Annual Meeting of the Institute for Nuclear Materials Management.

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