

Meet the Presenter...

Dr. Lindsay Shuller-Nickles

Dr. Lindsay Shuller-Nickles is an Assistant Professor in Environmental Engineering and Earth Science at Clemson University. She teaches undergraduate courses on subjects of mineralogy, petrology, the nuclear fuel cycle, and nuclear waste management and graduate courses on nuclear environmental engineering, technical nuclear forensics, and applications of quantum-mechanical modeling in environmental science. She received her Ph.D. in Materials Science and Engineering from the University of Michigan working with Rod Ewing and Udo Becker. Dr. Shuller-Nickles' research integrates computational and experimental tools to gain a fundamental understanding of the behavior of radionuclide-containing materials in the environment. She currently supports three undergraduate students, four graduate students, and one post-doc working on two funded projects. The first, funded by the Department of Homeland Security, supports her research in nuclear forensics of the characterization of pre- and post-detonation solid materials. The second is an EPSCoR Implementation grant, which funds Dr. Shuller-Nickles' group as part of a much larger project (~\$5M for three years). Her work on the EPSCoR grant is focused on quantum-mechanical calculations to understand cation ordering, waste loading, and phase stability for advanced ceramic waste forms. The calculations are performed in collaboration with experimental efforts within the larger EPSCoR group.



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