



## Thad M. Adams, PhD

*Savannah River National Laboratory*

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### EDUCATION

*University of Tennessee  
Bachelor of Science, Materials Science and Engineering*

*University of Florida  
Masters of Science, Materials Science and Engineering*

*University of Florida  
PhD, Materials Science and Engineering*

### EXPERIENCE

Dr. Thad Adams is the Director of Strategic Development and Innovation for the Advanced Manufacturing Collaborative. He is leading efforts to develop and arrange partnerships with colleges and universities as part of the collaborative. Thad is also responsible for developing the advanced manufacturing concepts at SRNL, with specific emphasis on process intensification, smart manufacturing, and enterprise modeling in support of programmatic initiatives. In addition, he is helping develop strategic partnerships, infrastructure, and resources to advance the continued emergence and transformation of SRNL into the nation's preeminent nuclear chemical manufacturing laboratory.

With more than 15 years' experience in Materials Research and Development, Thad is an expert in physical metallurgy and process of beryllium alloys, advanced nuclear fuel development and testing, spent nuclear fuel storage and disposal, and materials for hydrogen and hydrogen isotope service. He has authored more than 35 technical papers and reports related to materials development and testing, and has two pending patent disclosures related to materials for hydrogen service.

Thad's most recent research focused on understanding the effects of hydrogen on materials and developing new materials and technologies for hydrogen service applications. He has investigated mechanical and fracture testing of materials for hydrogen vessels and pipelines, hydrogen permeation barrier coating materials and application technologies, development of advanced hydrogen separation membranes, and the development of technical bases for hydrogen codes and standards.