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Dr. Robert O'Brien

INL Director of Advanced Design & Manufacturing

Rob leads INL's Advanced Design and Manufacturing initiative. This crosscutting technical area is of importance to the laboratory's growth by enabling us to respond to national and international opportunities for nuclear, energy, defense and space technologies research, development, demonstration, and deployment.

Rob joined INL's MFC directorate in 2016 following 7 years of service as Senior Scientist and Interim Director of the Center for Space Nuclear Research at CAES. At MFC, Rob has served as a Principal Investigator for TREAT experiments and as Group Leader for Advanced Manufacturing, New Nuclear Fuels & Feedstock development.

Fundamentally, Rob's research has focused on the development of processes and methodologies to manufacture and deploy advanced materials and systems for extreme environments. Rob's technical breadth in nuclear and non-nuclear physics, materials and advanced technologies development will help the laboratory improve capabilities and business volume across all of INL's directorates.

Rob has an undergraduate Master's degree in Physics with Space Science and Technology, and a Physics and Engineering Research Ph.D. in Space Nuclear Technologies from the University of Leicester, UK.

Education

Ph.D.

Physics Research; Nuclear & Radioisotope Technologies for Space Exploration, University of Leicester

Master's Degree

Physics with Space Science and Technology, University of Leicester

The Energy of Innovation

