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Micah Hackett

VICE PRESIDENT,
FUELS & MATERIALS

Dr. Micah Hackett is the Vice President of Fuels & Materials at Kairos Power. In this role, he leads the teams responsible for the testing and qualification of metallic and graphite materials as well as the manufacturing, testing, and qualification of TRISO-based annular pebble fuel. Kairos Power has designed and built innovative test systems for mechanical and material properties to better analyze effects in a reactor environment. The company has also strategically engineered and fabricated process equipment in-house to manufacture TRISO particles and annular pebble fuel to vertically integrate the fuel supply chain for Kairos Power's fluoride-salt-cooled high-temperature reactor (KP-FHR). Dr. Hackett has built a diverse team of experts and engineers who are passionate about learning by doing and focused on solving engineering challenges.

Before joining Kairos Power, Dr. Hackett built the materials team for the sodium-cooled fast reactor program at TerraPower, with concentrations in material optimization and qualification, supply chain development, manufacturing, irradiation testing, and advanced materials development. He focused especially on vendor and product development, building supply chains for important reactor components – working both domestically and internationally to establish new programs. Dr. Hackett also worked for Naval Reactors at the Knolls Atomic Power Laboratory, where he was awarded the 2009 Young Scientist of the Year Award for his work in welding methods development.

Dr. Hackett earned his Ph.D. and M.S.E. as a Naval Reactors fellow at the University of Michigan in nuclear engineering in 2008 with a focus on irradiation effects in structural alloys. He completed his B.S. in nuclear engineering at the Missouri University of Science and Technology in 2002. He is a long-time member of the American Nuclear Society (ANS).