

Ashlie Flegel Biography



Aerospace Engineer, Fluid Mechanics Icing Branch, NASA Glenn Research Center

Ashlie Flegel is the Advanced Aircraft Engine Icing Technical Lead in the Icing Branch at NASA Glenn Research Center. She received her Bachelor of Science degree in Mechanical Engineering from the University of Toledo (2007) and Master of Science degree in Mechanical Engineering from Cleveland State University (2013). Ashlie has eleven years of experience in the Turbomachinery field. She has held the roles of Mechanical Test Engineer and Aerospace Research Engineer. Her broad experience has led her from managing the operations of compressor, turbine, and nozzle research facilities to specializing in turbine aerodynamic and heat transfer experimental research. In her current role, she is focused on understanding the ice crystal icing phenomenon in turbofan engines that is simulated in the NASA Propulsion Systems Laboratory. The work in this area explores both full system level engine tests and fundamental icing research. This data provides improved understanding of the physics of ice crystal icing enabling the development of Computational Fluid Dynamics prediction and risk mitigation tools.