

# Adam Swanger



Adam Swanger is the Senior Principal Investigator and lead of the Cryogenics Test Laboratory at NASA Kennedy Space Center in Florida, USA, where he specializes in advanced thermal insulation and liquid hydrogen systems, and bespoke testing for a variety of cryogenic and vacuum applications. He obtained a MS in Mechanical Engineering from the University of Central Florida in 2018, and a BS in Aerospace Engineering from The Ohio State University in 2012.

Adam began his career with NASA in 2010 as an intern at the Cryogenics Test Laboratory, transitioning to a permanent position in 2012 where he immediately took on the role of lead engineer for the Ground Operations Demonstration Unit for Liquid Hydrogen (GODU-LH<sub>2</sub>) project that demonstrated advanced, large-scale LH<sub>2</sub> storage and transfer operations using Integrated Refrigeration and Storage. Following the successful, year-long GODU-LH<sub>2</sub> test campaign, he began a 2-year NASA fellowship to pursue his graduate degree, and then transitioned into his current principal investigator role where he has led various projects for NASA, the US Department of Energy and National Institute for Occupational Safety and Health, and collaborated with many commercial, and academic partners from around the world.

In addition to his day-to-day duties, Adam also currently serves on the board of directors for the Cryogenic Society of America, and is an active member of the NASA Engineering and Safety Center Technical Discipline Team for cryogenics. He regularly contributes to international conferences such as the Cryogenic Engineering Conference and Space Cryogenics Workshop—even co-chairing the latter event in 2019—and has over forty peer-reviewed publications in areas related to cryogenic propellant storage and management, integrated refrigeration systems, thermal insulation systems, and cryogenic testing methodologies.