

NASA's Advanced Composites Materials and Manufacturing Research for the Future

John Vickers

Principal Technologist and Senior Leader for Advanced Manufacturing
National Aeronautics and Space Administration (NASA)

This presentation will cover NASA's composites R&D efforts that cross multiple technology readiness levels and disciplines and are being implemented in space, science, and aeronautics programs. Cutting edge research and development in composites is allowing NASA to transform how they conduct their missions. Innovative approaches for accelerated progress include material processes development and optimization, digital twins, and multidisciplinary research for synthesis of science, engineering, and other disciplines. NASA is partnering with industry, academia, and other government agencies for research to improve affordability and to reduce the development and certification time to enable increased adoption throughout industry.