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ARCTOS Welcomes Dr. Matt Snyder as Director of Aerospace Structures and Materials

DAYTON, OH (16 Aug 2022) – ARCTOS Technology Solutions, LLC (ARCTOS) is excited to announce the hiring of Dr. Matt Snyder in the role of Director, Aerospace Structures and Materials. In this role, Matt will work closely with government, industrial, and academic partners to identify, assess, mature, and transition structural technologies, enabled by advances in materials, processing, and digital engineering. Matt joins ARCTOS following 21 distinguished years of active-duty service in the United States Air Force.

During his career as an Air Force developmental engineer, Matt served multiple roles at the Air Force Research Laboratory (AFRL), to include the Aerospace Systems Directorate and the Air Force Office of Scientific Research (AFOSR). In these roles, Matt led a wide variety of basic and applied research projects as a researcher, program manager, and international technology scout in extreme environment materials, energy efficient aerostructures, damage progression modeling, additive manufacturing, and other key structural technologies. At AFOSR's European Office of Aerospace Research and Development, he was instrumental in establishing and maintaining strategic relationships between Department of Defense technical communities and international researchers across Europe, Africa, and the Middle East.

Matt also served multiple faculty assignments at the United States Air Force Academy (USAFA), Department of Mechanical Engineering. As Associate Professor, he oversaw course development, taught courses, and led senior capstone projects supporting the mechanical, aeronautical, and astronautical engineering curricula. As a capstone mentor, he guided teams supporting AFRL projects in morphing structures and novel structural topologies for attritable aircraft, with a focus on developing design rules for structural component additive manufacturing. In his final year on faculty, he served as Department Head, responsible for curriculum development and overall leadership for the 52-member department.

In his last assignment at USAFA, Matt also oversaw the Academy's largest combined research center, the $25M Center for Aircraft Structural Life Extension (CAStLE) and the $32M Applied Mechanics Laboratory, prioritizing research in digital engineering and hypersonic air vehicle technologies across the center. As an example, his own research included experimental work related to understanding the post-buckled behavior of composite skin panels for hypersonic applications to inform life prediction models.

Matt completed his Ph.D. in 2012 from the Department of Aeronautics and Astronautics, Purdue University, where his dissertation research focused on developing a methodology for optimizing the wing structure of a reconfigurable air vehicle. At ARCTOS, Matt will leverage his broad experience and relationships across the government, industrial, and academic technical communities to advance aerospace structures and materials technologies to create new aerospace and defense capabilities.