Smarter Skies, More Resilient Systems: The Future of Commercial Aviation

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Dr. Jesse Quinlan joined the Aeronautics Systems Analysis Branch (ASAB) in 2014 as a Pathways Intern while completing his doctorate degree. In the ensuing years, Dr. Quinlan held several technical and leadership positions in ASAB involving a variety of aircraft concept and technology applications.

Before assuming the Branch Head position in September 2022, Dr. Quinlan served as the Systems Analysis & Integration (SA&I) Lead for the Advanced Air Transport Technology (AATT) Project where he managed a broad portfolio of aircraft design, advanced concept generation, technology assessment, and systems analysis in support of next generation, commercial subsonic transport aircraft concepts. Dr. Quinlan has been instrumental in recent years for the advocacy, formulation, and execution of critical ARMD priorities including the Advanced Aircraft Concepts for Environmental Sustainability (AACES) 2050 studies and the Model-Based Systems Analysis & Engineering (MBSAE) effort in support of the Sustainable Flight National Partnership (SFNP).

In his current position, Dr. Quinlan oversees aeronautics systems analysis, technology assessment, and advanced aircraft concept development and analysis for approximately 30 civil servants and 10 contractors supporting a broad collection of Aeronautics Research Mission Directorate (ARMD) projects and programs and relying on numerous external academic and industry partnerships toward this end.