

JOSEPH PELLETTIERE, PHD

Chief Scientific and Technical Advisor for [Crash Dynamics](#)

Dr. Joseph Pellettiere supports the development of occupant injury criteria as they apply to Aerospace systems and the application of these criteria to the certification of aircraft structure, seats, and cabin interiors. He has been heavily involved in the development of processes and procedures of analysis methods within the certification process with the ultimate goal of seat certification by analysis. Dr. Pellettiere has also supported transport, rotorcraft and small airplane certification programs. Current focal projects include the investigation of full-scale test methods and analytical techniques to support system level crashworthiness for both metallic and composite aircraft.

Dr. Pellettiere spent over 17 years working for the United States Air Force as a part of the Air Force Research Laboratory in the Human Effectiveness directorate. While working for AFRL, he lead many research programs including the effects of helmet supported mass, the development of tensile neck injury criteria, and the development of modeling and simulation tools for crash safety. He supported several accident investigation boards and large acquisition programs such as the joint strike fighter.

Dr. Pellettiere was the Air Force focal point for many collaborative programs including the original Seat Certification by Analysis, the Joint Cockpit Airbag System, and the Full Spectrum Crashworthiness for rotorcraft.