



Aviation



Our Aviation Group brings together mechanical engineers, material scientists and experienced pilots to investigate the causes of airplane and helicopter accidents and incidents. Our multidisciplinary approach ensures we consider all possible contributing factors, from the environmental conditions outside the aircraft right down to microscopic defects inside a failed component. This rigorous methodology provides clients with a complete picture of the multiple factors responsible for many aviation accidents.

Our aviation investigations frequently include evidence examination and custody, in addition to testing and laboratory analyses for:

Design and Manufacturing Defects

- ✦ Materials and assembly defects
- ✦ Dynamics, vibration, stress, corrosion, and wear
- ✦ Sequence of failure
- ✦ System, sub-system and component failures
- ✦ Engine failures, fires, explosions and shutdowns
- ✦ Airframe and flight control surfaces

Operational and Procedural Evaluations

- ✦ FAA operating rules and airworthiness standards
- ✦ Certification and maintenance compliance
- ✦ Air Traffic Control procedures and clearances
- ✦ Airspace requirements
- ✦ Pilot training and evaluation
- ✦ Human factors
- ✦ Aircraft loss-of-control, emergency procedures and landings
- ✦ Weight and balance, fueling and loading procedures
- ✦ Adverse weather and high altitude meteorology