



COMPUTATIONAL MECHANICS LAB

The Computational Mechanics Lab at the National Institute for Aviation Research provides research focused in the development and application of numerical methods in areas of Crashworthiness, Injury biomechanics, Structures, Numerical Optimization Techniques, Virtual Product Development and Certification.

PROJECTS

- Crashworthiness Certification by Analysis of Composite Structures, Federal Aviation Administration
- Bird Strike Numerical Model Development and Validation, NIAR/Industry/State
- Passenger Protection in Rail Transit Vehicles , Federal Transit Administration
- Evaluation HIII 95th and 5th Percentile ATD for Automotive Applications, American Occupant Restraint Council
- Certification by Analysis of Aircraft Interiors, Federal Aviation Administration

COMPUTATIONAL RESOURCES

- 20 HP 8 Core Workstations (160 Cores)
- HPPC Cluster A: 8 nodes (64 Cores)
- HPPC Cluster B: 2 nodes (64 Cores)
- Data Storage System 16 TB
- Secure Area/Data Access

CONTACT

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