

# New AAE 590: AI/ML for Aerospace Structures

*Provides a unique blend of theory and practice, equipping students with tools to harness AI/ML for design and analysis of aerospace structures and materials.*

Students will gain hands-on experiences in:

- Training neural networks (feed forward, convolutional, and GenAI models).
- Predicting properties for aerospace structures and materials.
- Designing material microstructures to achieve targeted properties.



**AI-Assisted Multiscale Modeling of Aerospace Structures**

A machine can take hold of the bare fact, but the soul of the fact will always escape it.  
—Poincare, 1908

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