



From da Vinci to the Space Shuttle: Understanding the Dynamics of Flight

A Summer Academy in Aero-science, Engineering and Mathematics
for High Ability Students held at the Florida State University

Engineering the Future: Educating Tomorrow's Leaders Today!

"Engineering the Future" sponsored by the Florida Center for Advanced Aero-Propulsion (FCAAP) will provide 20 selected rising 10th-12th grade gifted students with the opportunity to participate in a week-long residential academy on the campus of FSU.

Students will engage in exciting laboratory activities, scientific experiments and inquiry based learning incorporating high-level science and math curriculum. Classroom, lab and hands-on science experiments will include:



- Fundamental Math and Science behind flight
- Computer modeling of cutting edge Smart Materials research
- Wind Tunnel model & RC aircraft testing
- Bio-inspired robot flight
- Gliding and flapping flight
- Construction of models of carbon nanotubes
- Programming Martian rovers
- The physics and mathematics of rovers



When: July 11-16, 2010

Location: Florida State University, Tallahassee, FL

The 2010 Summer Academy is offered at no cost. Please submit completed applications as soon as possible, as they will be reviewed upon receipt. Applications are available from your school district's Gifted Coordinator.

Direct questions to: summer.academy@fcaap.com