Discover Space Technology

Use these resources to explore what is going on in the world of aerospace.

Read About It:

Aerospace Design: Aircraft, Spacecraft, and the Art of Modern Flight by Anthony M. Springer

Air and Space: The National Air and Space Museum Story of Flight by the Smithsonian Institution and Andrew Chaikin

Barons of the Sky: From Early Flight to Strategic Warfare: The Story of the American Aerospace Industry by Wayne Biddle

The Enterprise of Flight: The American Aviation and Aerospace Industry by Roger Bilstein

Rocket Boys by Homer H. Hickam, Jr.

Log on:

http://origins.jpl.nasa.gov

This fascinating Web site describes how NASA is searching for life on other planets, including detailed descriptions of the technical challenges involved.

www.space.com/searchforlife

News, blogs, and columns about the search for life on other planets.

www.seti.org

The mission of the nonprofit SETI Institute is to explore, understand, and explain the origin, nature, and prevalence of life in the universe.



How do you define the future?

Picture yourself in one of these careers:

Electrical Engineer/Physicist

Integrate electrical and electronic designs with ship systems. Work on heating, ventilation, air conditioning, power, dry air, and chilled-water systems in fields such as navigation, weapon-fire control, sonar, radar, communications, propulsion controls, and shipboard instrumentation.

Mission/Systems Engineer

Perform systems engineering for governmentsponsored satellite programs. Support the design, launch, and on-orbit operations of space and ground systems. Perform trade studies and analyses, simulation and modeling, reliability and safety checks, and integration and test activities.

Structural Engineer

Perform structural-design-utilizing systems to develop parametric solids for conceptual layouts, parts, assemblies, and installations. Perform detailed analysis, structural-integrity evaluations, acoustic/dynamic evaluations, and weight control.

Does AEROSPACE ENGINEERING sound exciting?

Check out these books and Web sites to find out about this and other cool careers in space!

Read About It:

Advice to Rocket Scientists: A Career Survival Guide for Scientists and Engineers by Jim Longuski

Career Opportunities in Aviation and the Aerospace Industry by Susan Echaore-McDavid

Opportunities in Aerospace Careers by Wallace R. Maples

Log on:

www.nasa.gov

See what's new in the world of NASA. Log on to find out about new missions and discoveries.

http://questdb.arc.nasa.gov/bio_search.htm

Use this search engine to find biographies of NASA employees and learn about the rewards and challenges of their daily work.

www.engineeringk12.org/ students/have_you_got_what_it_ takes/top_ten_benefits.htm

Log on to find the top 10 benefits of having a career in engineering.

How do you define the future?

Picture yourself in one of these careers:

Flight Control System Engineer

Build and update air-vehicle models and flight-control-systems-computer models. Perform control law analysis/synthesis and non-real-time digital simulation and flight-test data analysis support. Support engineering teams to develop electrical and instrumentation systems, detailed designs of special test equipment, and interfaces for laboratories and air vehicles.

Vehicle Systems Engineer

Use knowledge of fluid mechanics, thermodynamics, and heat transfer to participate in specifying, designing, and prototyping new Vehicle Management System computer architectures for control-systems applications. Participate in development of simulation models, flight safety–critical systems verification and validation testing in laboratory and vehicle environments. Create drawings, charts, and computer programs.