Resource Sheet 2

Explore Energy Technology

These resources will get you powered up about the world of energy.

Read About It:

The Cartoon Guide to Physics
by Larry Gonick & Art Huffman

The Chip: How Two Americans Invented the Microchip and Launched a Revolution
by T. R. Reid

The New Way Things Work
by David Macaulay

The Submarine: A History
by Thomas Parrish

Log on:

www.inventors.about.com/library/inventors/blsubmarine.htm
A good general history of submarine design.

www.howstuffworks.com
This award-winning and addictive Web site is a wonderful resource for people who wonder "how." Search on computers, electricity, PlayStation, and thousands of other topics.

www.physicsclassroom.com/Class/energy/u5l1c.html
An online tutorial offering an in-depth explanation of kinetic energy and other physics basics.

How do you define the future?

Picture yourself in one of these careers:

Aerospace Engineer
Conduct aeronautical engineering tasks—such as design, stress analysis, materials and processes dynamics, manufacturing, integration, and flight-test support—that support the development and manufacture of satellites, high-energy lasers, and advanced instruments.

Communications Engineer
Use math and engineering skills to handle management changes, definition and planning, analysis of test results, and assistance in defining testing methods.

Mechanical Engineer
Perform all aspects of mechanical design of space-craft structures, high-energy lasers, antenna systems, avionics, and support equipment, including stress and dynamic and thermal analysis. Provide technical expertise for the design, layout, construction, manufacture, integration, test, and maintenance of mechanical or electro-mechanical structures or devices.

Get plugged into opportunities in ELECTRICAL ENGINEERING!

Read about it in these books and Web sites and find out about other careers in engineering.

Read About It:

Is There an Electrical Engineer Inside You? A Student's Guide to Exploring Electrical Engineering
by Celeste Baine

Peterson's 1999 Computer Science & Electrical Engineering Programs: The Only Complete Resource to Graduate Programs in the U.S. and Canada

The Art of Electronics
by Paul Horowitz and Winfield Hill

The Essential Guide to Semiconductors
by Jim Turley

Log on:

www.topix.net/science/electrical-engineering
An online bulletin board of electrical engineering news.

www.studentsreview.com/summer_prog.shtml
This student-run Web site can help you get a jump on a future career in engineering by attending a summer program at a nearby university.

How do you define the future?

Picture yourself in one of these careers:

Electrical Engineer—Cable and Harness Engineering
Support harness and cable design activities. Responsible for wire selection, harness definition, routing, cable-drawing development, wire-interconnect definition, harness termination, voltage drop, harness capacitance, and transmission-line calculations.

Electro-Optical Engineer
Use communications skills to work with a team to implement data acquisition and/or control systems. Work with oscilloscopes, test equipment and photodiodes, and position sensors.