

MARCRRAFT

Keeping it real...since 1975



Green Technology

Marcraft's Alternative Energy Program

Over 5 million new jobs will be created in the near term for over 200 job categories from technicians, installers, engineers, and scientists to urban planners and system designers.

The Marcraft GreenSTEM™ program incorporates and reinforces key Science, Technology, Engineering and Math (STEM) concepts and principles while teaching students about:

- Wind Turbines
- Hydro-Electric Power
- Bio-Fuels
- Environmental Monitoring
- Solar Power
- Fuel Cells
- Green Construction
- Other Green Technologies



Prepare your students for the “green collar” economy

Supporting the fastest growing job fields!

MARCRRAFT an ETG brand

1.800.441.6006 www.marcraft.com



The premier green technology program



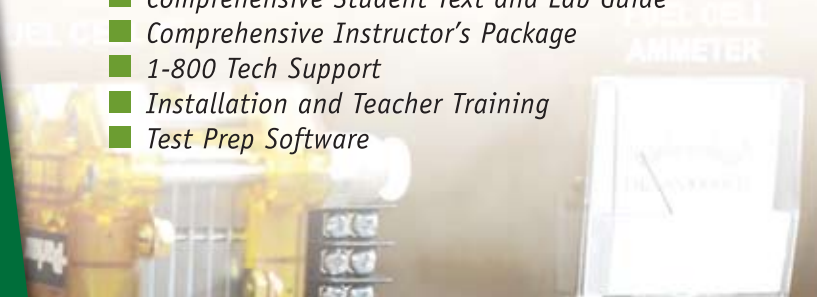
From Smart Grid Engineers to Photo-Voltaic Solar Panel Designers, Nuclear Engineers, Forest Conservation Consultants and Wind Turbine Installers, "...Green Technology is "the mother of all markets" ...perhaps the largest economic opportunity of the 21st century", states John Doerr, a leading green technology lecturer and member of the President's 2009 Economic Recovery Advisory Board.

Implement the full 180 hour Green Technology program or incorporate individual 30 hour modules to begin building a Green program. You can also add design briefs to your program and add a full additional year of study.

The Marcraft program includes:

- Training Panels for Individual Technology Areas
- Comprehensive Student Text and Lab Guide
- Comprehensive Instructor's Package
- 1-800 Tech Support
- Installation and Teacher Training
- Test Prep Software

"...the ability to develop clean power and energy efficient technologies is going to become the defining measure of a country's economic standing, environmental health, energy security, and national security over the next 50 years." Thomas L. Friedman



FUEL CELL #3

FUEL CELL #4

FUEL CELL

DISCONNECT

FUSE

MARCRAFT

HYDROGEN GENERATOR

GT-1500
CLEAN ELECTRON
GENERATION PANEL
TIL MARCRAFT

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Built from the ground up on STEM principles

Students begin the program by learning the important fundamentals of the Energy Crisis (?), Global Warming (?), The Electrical Power Grid, Global Power Economics, Sustainable Resources, General Energy Saving Practices, and General Green Practices.



In subsequent modules, the theory of each major green technology is covered in detail. Selected technologies are then combined with relevant hands-on lab exercises to completely prepare your students. Your students will learn the underlying science of each technology, the application of the science to these technologies, math principles associated with the technologies and the engineering and design principles required to implement and scale the technologies.





Interested students may also work towards industry-level certifications through the Electronic Technicians Association (ETA) as wind turbine or solar panel installers (see career map on back).



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Green Technology Career Pathways

Sample Job Titles	Sample Job Titles	Sample Job Titles	Sample Job Titles
(Hourly \$11-\$25) Solar & PV Installer ICE Tech Install. Technician Wind Field Tech Renew. Energy Tech Forestry Conservation HVAC Installer Sheet Metal Worker Maintenance Tech Manufacturing Tech Solar Fabrication Tech Wind Gener. Installer	(Hourly \$15-\$38) Wind Turbine Mach Plant Install. Tech Field Technician Diesel Retrofit Install. Elect. Systems Install. Wind Field Serv. Tech Heat Pump Mach. HVAC Engineer Water System Designer Green Plumber Machinist Geothermal Eng. Intern	(Salary \$25K--\$75K) Manufacturing Technician Energy Field Auditor Plant Project Manager Solar Lab Technician Hydro Operating Supervisor Marketing Sales Consultant Wind Turbine Technician Forest Conservation Cons. Installation Eng. Tech Engineering Intern Hydro Field Technician Nuclear Technician	(Salary \$35K--\$150K) Smart Grid Engineer Solar Installation Engineer Energy Systems Designer PV Solar Cell Designer Wind Turbine Engineer Wind Field Ops Mgt. Nuclear Engineer Hydro-Elec. Plant Engineer Hydro Power Generator Eng. Geothermal Operations Eng. Environmental Planner Geologist/Hydro-geologist
			
Apprenticeship Installation Helper Installer Electrician Technician Asst. Welding/HVAC Fabrication	Trade School Instr. /Controls Installation Tech Drafting Plumbing/Pipefitting Welding/HVAC Engineering Tech Machinist	Associate Degree Electrical Engineering Electronics Material Science Physics Chemistry	4 Year University Engineering: Electrical, Mechanical, Civil, Hydro, Structural, Energy, Indust. Accounting Economics Geology/Hydrology Finance

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"While the internet market potential is billions, the green market is trillions."
John Doer

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