

# CAREER OPPORTUNITIES IN ENERGY AND UTILITIES INDUSTRY SECTOR

## 10 TIPS FOR CHOOSING THE RIGHT CAREER FOR YOU

*How does a person know what career to work toward?  
There is no perfect answer, but the following 10 tips will  
get you off to a good start.*

- 1 Get to know yourself** – Complete more than one self-assessment test.
- 2 Identify your strengths and weaknesses** – What do you do well and what do you not do well?
- 3 Develop an inventory of careers** – Write down some careers that might interest you.
- 4 Research different careers** – Talk to others and use the Internet.
- 5 Write the pros and cons** – List positives and negatives about the careers that interest you.
- 6 Network** – Discuss your ideas with others.
- 7 Talk with people who work in your area of interest** – Family and friends are great resources.
- 8 Find a mentor** – Find someone with whom you can discuss your career selection.
- 9 Experiment** – Take a related class or part-time job.
- 10 Don't give up** – "If there is a will, there is a way."



STATE CENTER CONSORTIUM  
*A Partnership for Success*

390 W. Fir Ave, Suite 300, Bldg B  
Clovis, CA 93611  
Phone: (559) 324-6410 Fax: (559) 324-6489  
www.statecenter.com

This material is made pursuant to agreement number CN088139 A.2 of the California Tech Prep Distribution Point Grant. Funds were administered by the Secondary, Postsecondary, Adult Leadership Division of the California Department of Education in collaboration with the California Community College Chancellor's Office.

Activity that is the subject of this document was supported in whole or part by the U.S. Department of Education. However, the opinions expressed herein do not necessarily reflect the position or policy of the U.S. Department of Education, and no official endorsement by the U.S. Department of Education should be inferred.

Plan For Success  
Visit [statecenter.com/industrysectors](http://statecenter.com/industrysectors)





Utilizing renewable energy and sustainable resources will impact our future for generations to come. Hydroelectric, geothermal, and nuclear power are part of the current resources, but what new energy technology might the future hold? Doing more with less will likely be a focus of future research and development.

Pollution created by energy and utility use poses a significant challenge for environmentalists and scientists current and future. Improving the recycling of waste materials from trash to sewage will offer many employment opportunities in the Energy and Utilities Industry Sector.

Web sites for further information:

[www.californiacareers.info](http://www.californiacareers.info)

[www.whodouwant2be.com](http://www.whodouwant2be.com)

[www.californiacolleges.edu](http://www.californiacolleges.edu)

[www.edd.ca.gov/Jobs\\_and\\_Training/](http://www.edd.ca.gov/Jobs_and_Training/)

# Career Pathways



## Electromechanical Installation and Maintenance Pathway

Electromechanical refers to the combining of electrical and mechanical parts in devices such as electric motors, loudspeakers, and adding machines. Students will need to understand energy conversion processes and energy transmission systems, as well as the installation and maintenance of equipment used in this field.

### CAREERS/CAREER AREAS:

- *Power Meter Installer/Reader*
- *Appliance Repair*
- *Utility Technician*
- *Instrument Calibration*
- *Major Appliance Designer*
- *Electrical Engineer*



## Energy and Environmental Technology Pathway

Individuals preparing for careers in energy and environmental technology will need to develop a working knowledge of related available resources and how the use

of these resources and systems impact the environment. Conservation methods including procedures to measure energy efficiency will be important for the future of our nation.

### CAREERS/CAREER AREAS:

- *Energy Management*
- *Environmental Pollution Control*
- *Waste Management*
- *Natural Gas, Chemical, Petroleum, and Nuclear Engineer*
- *Energy/Environmental Technician and Engineer*



## Residential and Commercial Energy and Utilities Pathway

The Residential and Commercial Energy and Utilities Pathway provides learning opportunities for jobs involved in obtaining, verifying, and maintaining primary financial data and records for the usage of electricity, gas, water, and sewer utilities. Technicians and engineers are needed to develop, operate, and maintain energy and utility systems for homes and businesses.

### CAREERS/CAREER AREAS:

- *Solar Technician/Engineer*
- *Electrical Technician/Engineer*
- *Facilities Technician/Engineer*
- *Industrial Maintenance Technician/Engineer*
- *HVAC Technician/Engineer*



## Public Utilities Pathway

The word "utilities" refers to the set of services associated with electricity, natural gas, water, and sewage. Because these services are expensive to develop, operate, and maintain, utility companies are primarily "public" in governance. However, a growing number of privately-owned utilities are emerging. Public utility companies are subject to government control and regulation, and employ a large number of people.

### CAREERS/CAREER AREAS:

- *Energy Management Technician/Engineer*
- *Utilities Technician/Engineer*
- *Power Grid Engineer*
- *Waste Technician/Engineer*
- *Facility Design Engineer*
- *Industrial Facilities Technician/Engineer*
- *Gas, Chemical and Nuclear Engineer*
- *Utilities Technician*
- *Water Systems Technician*

