



Energy, Construction & Utilities

A PRIORITY SECTOR in San Diego County



San Diego
Workforce
Partnership

How often do you take for granted things like a working sink, turning on a light to read at night, or the roof that's likely over your head at this moment? This sector creates the physical places people live, work and enjoy—from the four walls of a building to the wiring and power that make it possible to offer free wifi. People in this industry work as civil engineers, electrical technicians, solar photovoltaic installers and construction craftspeople.



148,992

People
employed



9%

Proportion of
San Diego County
jobs within sector



10,821

Number of
businesses



How do I start my career?

Do some research

- Use Career Coach at workforce.org/careercoach to explore which occupations align with your interests, see a behind-the-scenes peek at what a career looks like and discover local companies.
- Plan for a career in clean energy by exploring the **Department of Energy's** website, energy.gov.

Expand your network

- Use social media tools like LinkedIn to network with professionals. Request an informational interview to ask them about their career path, education and job responsibilities.
- Attend an event hosted by an industry-related organization like the **Building Industry Association of San Diego** or **Cleantech San Diego**.

Get hands-on experience

- Volunteer with organizations like **Habitat for Humanity** to try on the construction field.
- Volunteer to install solar panels for low-income families with **GRID Alternatives San Diego**.

Get training

- There are more paid apprenticeship programs in the building trades than any other type of occupation. Search the website for the **California Division of Apprenticeship Standards** for a list of opportunities in San Diego.
- Explore certification programs through **Clean Tech Institute**
- Explore free or low-cost classes and certificate programs at your local adult education provider.



Starting January 1, 2020, solar panels will be required on all single-family homes and multi-family buildings that are three stories tall or smaller.

Subsectors

- Power generation & distribution
- Construction of buildings
- Heavy & civil engineering construction (e.g., bridges, roads, pipelines)
- Waste management & remediation
- Environmental consulting









Learn more at workforce.org/mynextmove

What can I do? sample occupations

 Doctoral degree
  Master's or professional degree
  Bachelor's degree
  Associate degree or certificate
  High school diploma or less

Educational levels are typical for each occupation, but various employers may have slightly higher or lower minimum requirements.









FOUND PRIMARILY IN THIS SECTOR

Occupation	Employed 2018 ¹	Median hourly pay	Typical entry-level education
Environmental Engineers	276	\$46	
★ Electrical Power-Line Installers and Repairers	658	\$43	
Civil Engineers	3,838	\$39	
Construction Managers	4,990	\$37	
★ First-Line Supervisors of Construction Trades and Extraction Workers	6,170	\$35	
★ Structural Iron and Steel Workers	1,201	\$32	
Plasterers and Stucco Masons	825	\$26	
Plumbers, Pipefitters, and Steamfitters	5,002	\$24	

¹ Number employed this industry group

★ Priority occupations are predicted to have high growth and a high number of annual job openings in San Diego County over the next five years

COMMON IN THIS AND OTHER SECTORS

Occupation	Employed 2018 ¹	Median hourly pay	Typical entry-level education
Computer and Information Systems Managers	249	\$69	
★ Electrical Engineers	958	\$49	
Urban and Regional Planners	89	\$39	
★ Management Analysts	634	\$37	
★ Cost Estimators	1,997	\$31	
Electricians	6,743	\$28	
Bookkeeping, Accounting, and Auditing Clerks	1,925	\$21	
Secretaries and Administrative Assistants	2,513	\$19	

Where can I work? sample employers

Blue Planet Drains and Plumbing ESTABLISHED: 2004	Uses energy-conserving technologies to provide drain cleaning, leak detection, slab leaks and sewer cleaning services	1–50 employees
McCarthy Construction ESTABLISHED: 1864	Designs and constructs projects such as educational buildings, labs, government offices and health care facilities	51–200
Waste Management ESTABLISHED: 1968	Comprehensive waste and environmental services company	1–50
AAA Companies ESTABLISHED: 1995	Full-service facility maintenance, repair and construction firm that services multifamily homes, health care facilities and retail storefronts	1–50
California Sheet Metal Works Inc. ESTABLISHED: 1908	An union architectural metal company that makes and installs metal architectural features such as building facades, decorative exteriors and custom railing	1–50

