

California's Advanced Energy industry needs highly skilled workers – 15,000 more of them every year. Community colleges are uniquely positioned to meet this need. The Energy, Construction and Utilities Sector initiative engages education and industry stakeholders to amplify student success in delivering the skills, knowledge, and abilities needed for rapid technological advances.

A team of Energy, Construction and Utilities specialists manage this initiative, building industry and education collaboratives that help drive long- term economic growth. Working with faculty, this team facilitates development of regional career pathways that map to priority industry needs.

www.**ECUSectorDWM**.com

STRONG WORKFORCE.  
BUILT TO INDUSTRY STANDARDS.



## **Energy Construction & Utilities**

California Community Colleges  
Workforce & Economic Development

The California Community Colleges is the largest system of higher education in the nation composed of 72 districts and 114 colleges serving 2.1 million students per year. Community colleges supply workforce training, basic skills education and prepare students for transfer to four-year institutions. The Chancellor's Office provides leadership, advocacy and support under the direction of the Board of Governors of the California Community Colleges.

For more information about the community colleges, please visit:  
<http://californiacommunitycolleges.cccco.edu/>



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## FOR INDUSTRY:

### Create an Energy-Efficient Workforce

We address the growing disconnect between the skills you are seeking and those being cultivated through education today. An aging workforce and a lack of qualified applicants is creating a statewide need for effective training and recruitment.

#### SKILLS GAPS REDUCE PROFITABILITY

If you operate a commercial building, your workforce needs new skills to manage energy costs in a complex rate structure, tight regulations, and technology challenges. If you offer construction or professional services for the built environment, you know that tough compliance rules and rapidly evolving technologies has your workforce struggling to keep up.

#### THE GAP IS WIDENING

Competition for skilled workers will intensify as 40% of the energy efficiency workforce retires over the next five years. Some regions of California are already seeing three times as many energy efficiency job openings as qualified workers need to fill them.

#### FILL THE GAP: PARTNER WITH THE CALIFORNIA COMMUNITY COLLEGES.

Join the growing number of businesses that collaborate with our team of Sector Navigators to meet their workforce needs. We understand your business, helping the colleges translate your priorities into sustainable programs that build your 21st Century energy efficiency workforce.

## FOR EDUCATORS:

### Tap into Opportunities for Your Students

Community colleges are critical to sustaining growth in the energy efficiency sector. Industry needs a robust worker pipeline and programs that bridge skills gaps among incumbent workers, for which the community colleges are perfectly positioned. How do you engage industry in amplifying student success, identifying employment opportunities, and creating pathways for lifelong learning?

#### BY DISCOVERING A NEW RESOURCE

We are the Energy, Construction & Utilities Sector Team, an initiative under the Doing What MATTERS for Jobs and the Economy framework. We facilitate regional collaboratives that partner colleges with a critical mass of employers to improve student success. Contact us if your programs involve electrical,

mechanical, information systems, construction, engineering, and architecture, and you want better alignment with the Advanced Energy jobs market.

#### KEY BENEFITS

- Identify and Bridge Skills Gaps
- Upgrade Programs to Industry Standards
- Develop Regional Career Pathways
- Build Industry Support for Student Success
- Market the Value of Community Colleges

## FOR STUDENTS:

### Land a Career. Earn Large. Save the Planet.

If you're a student or career changer, you're in the right place at the right time. California's Advanced Energy sector is creating 15,000 jobs annually, many starting at \$40,000 per year with career progression to more than \$100,000.

#### PICTURE YOURSELF IN AN ADVANCED ENERGY CAREER.

The work is exciting. Ranging from Environmental Controls in commercial buildings to Smart Grid, these jobs are on the cutting edge of technology. Skills needed in these careers are transferable to many other growth industries. Typically, a community college technical certificate is all you need to launch your new high-wage career.

Growth equals opportunity. Advanced energy is a nearly \$1.3 trillion global industry, larger than the apparel and airline industries. The U.S. advanced energy market is up 14% since 2013, five times the growth rate of the U.S. economy overall.

California leads Climate Change action. Advanced energy happens here first, from new technology development in Silicon Valley to state policies that will reduce California's greenhouse gas emissions to 1990 levels by the year 2020.

Learn more: Check out [www.ecusectordwm.com](http://www.ecusectordwm.com). Get in touch with a career counselor at your local high school, community college, or One Stop Career Center to explore your career options.

## PARTNER WITH US!

## KEY INITIATIVES:

#### Building Operations Professionals:

Cultivating a new operations and maintenance workforce for high-performance non-residential buildings.

**HVACR Technicians:** Building standards-based regional career pathways for quality installation and maintenance for Heating, Ventilation, Air Conditioning, and Refrigeration in non-residential buildings.

#### Advanced Lighting Control Technicians:

Addressing the entire value chain - from decision makers to architects and engineers, to installation, to ongoing operations and maintenance.

#### Control Systems Technologies Specialists:

Evolving the current workforce for advanced skills in commercial and industrial automation.

#### Building Science Construction Managers:

Infusing a "whole building" approach into the skills and knowledge required for energy-efficient construction.

#### Energy Efficiency Analysts and Auditors:

Developing a workforce with the technical and business skills to inform investments in energy efficiency.



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