



CENTERS OF EXCELLENCE  
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# Career Fact Sheet *Energy Efficiency Tools for the Career Counselor*

## Central Valley Region

This data was prepared for California Community Colleges and pertains to community college-level coursework as a resource for counselors to share with students.

### The Bottom Line

California has moved aggressively to establish a legislative and policy framework that puts energy efficiency at the forefront, in an effort to meet the state's increasing energy needs and fight global warming. Firms that hire energy efficiency workers are found in multiple industries. The following are five industry groups with the greatest concentration of energy efficiency occupational opportunities. This information comes from a Central Valley regional study of energy efficiency conducted by the COE in 2009. More information on this study, including other regions within California, can be found at [www.coecc.net/energy](http://www.coecc.net/energy).

#### Utilities & Resource Management

Includes occupations that are engaged in assessment and planning for energy efficiency.

#### Design & Construction of New Buildings

Includes occupations that are focused on building and designing new energy efficient structures (residential and commercial focus, new structures only).

#### Retrofitting Homes

Includes occupations that are focused on building and designing energy efficient homes (residential focus, existing buildings only).

#### Retro-commissioning Buildings

Includes occupations that are focused on building and designing energy efficient facilities (commercial focus, existing buildings only).

#### Facility or Building Operation & Maintenance

Includes occupations focused on repair and maintenance of new energy efficiency systems that are used in new and retrofitted buildings and facilities.

## Regional Snapshot

Eight energy efficiency occupations were identified as high-growth and can be trained for at community colleges. Below is a table that details these occupations and their growth potential in the Central Valley region. More detailed occupational information is available in the complete environmental scan (see Appendix H) at [www.coeccc.net/energy](http://www.coeccc.net/energy) or visit [online.onetcenter.org](http://online.onetcenter.org).

Energy Efficiency Occupations	2009 Employment Estimate	3-year Projected Growth	Growth Rate	Entry Level Median Annual Wage	Experienced Level Median Annual Wage
Building performance or retrofitting specialists	1,290	460	36%	\$33,300	\$52,000
HVAC mechanics, technicians or installers	1,780	820	46%	\$26,500	\$52,000
Project managers, construction or design	1,890	520	28%	\$41,600	\$66,400
Building operators or building engineers	1,140	220	19%	\$40,000	\$58,200
Energy auditors or home energy raters	1,000	420	42%	\$31,200	\$52,000
Resource conservation or energy efficiency managers	2,000	440	22%	\$51,000	\$77,500
Building controls systems technicians	820	280	33%	\$37,400	\$61,200
Compliance analyst or energy regulation specialists	870	260	30%	\$36,000	\$56,200
<b>Total, All Occupations (totals may not add due to rounding)</b>	<b>10,790</b>	<b>3,420</b>			

## Student Tips

- **Skills Employers Seek:** Employers emphasize that communication skills [written and verbal] are the most important skills they value in new employees.
- **Internships Encouraged:** In the Central Valley region, 60% of employers surveyed expressed interest in working with colleges to provide four to six month internships for students. Some of the key associations connected to employers working within the energy efficiency sector include:
  - American Society of Heating, Refrigerating, and Air Conditioning Engineers [ASHRAE], [www.ashrae.org](http://www.ashrae.org)
  - Building Owners and Managers Association [BOMA], [www.bomasacramento.org](http://www.bomasacramento.org)
  - UC Davis, Energy Efficiency Center, [eec.ucdavis.edu](http://eec.ucdavis.edu)
  - US Green Building Council, Central California Chapter, [www.usgbc-ncc.org](http://www.usgbc-ncc.org)

For an expanded list of community support and resources in the Central Valley region, download the complete environmental scan at [www.coeccc.net/energy](http://www.coeccc.net/energy).

## Educational Track

Here is a listing of community colleges in the Central Valley region offering energy efficiency industry programs. For more information, access the complete environmental scan at [www.coeccc.net/energy](http://www.coeccc.net/energy).

COLLEGE	Energy Efficiency Related Programs*							
	Environmental Science	Environmental Studies	Environmental Technology	Industrial Systems Technology & Maintenance	Environmental Controls Tech (HVAC)	Energy Systems Technology	Construction Crafts Technology	Civil & Const. Management Technology
*Only colleges with approved programs are included in this table.								
Bakersfield			A.S. Degree, Certificate				A.S. Degree, Certificate	
Columbia	A.S. Degree							
Fresno City			A.S. Degree				A.S. Degree, Certificate	A.S. Degree
Hartnell				A.S. Degree, Certificate	A.S. Degree, Certificate		Certificate	A.S. Degree, Certificate
Merced			A.S. Degree, Certificate	A.A. Degree, Certificate	A.A. Degree, Certificate			
Modesto Junior				A.S. Degree, Certificate			A.S. Degree, Certificate	A.S. Degree
San Joaquin Delta				A.S. Degree, Certificate	A.S. Degree, Certificate			Certificate
College of the Sequoias				A.S. Degree, Certificate	A.S. Degree, Certificate		A.S. Degree, Certificate	

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