



ENGINEERING AND DESIGN

The Engineering and Design Industry Sector is ideal for students who have a strong understanding of mathematics and a creative drive to design new ideas. If you are passionate about the environment and have innovative ideas for renewable energy or water treatment, or you have the next hit attraction for an amusement park in your head waiting to be designed, this sector could be your path to success. Student attributes for success in this sector include strong problem solving and analytical skills, the ability to work as part of a team, and a strong work ethic.

The information below is just a small sample of the many great employment related resources available on the State of California website www.edd.ca.gov. We encourage you to visit the website and explore the available information.

Occupation Title	Employment Levels in 2006	Projected Employment level 2016	Projected Job Growth	Percent of Job Growth	2008 Hourly ¹ Mean Wage	2008 ² Weekly Mean Wage	2008 ³ Monthly Mean Wage	2008 Annual Mean Wage
Aerospace Engineering & Operations Technicians	1,100	1,100	0	0.00%	\$29.78	\$1,191.20	\$5,003.04	\$60,036.48
Architects	15,700	16,900	1,200	7.60%	\$39.37	\$1,574.80	\$6,614.16	\$79,369.92
Atmospheric & Space Scientists	N/A	N/A	N/A	N/A	\$45.57	\$1,822.80	\$7,655.76	\$91,869.12
Avionics Technicians	1,600	1,700	100	6.30%	\$25.04	\$1,001.60	\$4,206.72	\$50,480.64
Civil Engineering Technicians	8,400	9,200	800	9.50%	\$27.81	\$1,112.40	\$4,672.08	\$56,064.96
Civil Engineers	34,100	39,200	5,100	15.00%	\$39.91	\$1,596.40	\$6,704.88	\$80,458.56
Computer Hardware Engineers	21,400	23,700	2,300	10.70%	\$52.32	\$2,092.80	\$8,789.76	\$105,477.12
Computer Software Engineers, Applications	87,300	128,400	41,100	47.10%	\$47.24	\$1,889.60	\$7,936.32	\$95,235.84
Computer Software Engineers, Systems Software	52,100	66,800	14,700	28.20%	\$49.41	\$1,976.40	\$8,300.88	\$99,610.56
Conservation Scientists	1,000	1,100	100	10.00%	\$32.92	\$1,316.80	\$5,530.56	\$66,366.72
Drafters	3,400	3,800	400	11.80%	\$26.94	\$1,077.60	\$4,525.92	\$54,311.04
Electrical & Electronic Technicians	23,000	25,300	2,300	10.00%	\$28.31	\$1,132.40	\$4,756.08	\$57,072.96
Electrical Engineers	19,600	20,700	1,100	5.60%	\$45.45	\$1,818.00	\$7,635.60	\$91,627.20
Electro-Mechanical Technicians	2,200	2,300	100	4.60%	\$25.76	\$1,030.40	\$4,327.68	\$51,932.16
Engineering Technicians	12,000	13,900	1,900	15.80%	\$27.70	\$1,108.00	\$4,653.60	\$55,843.20
Environmental Engineers	4,800	6,000	1,200	25.00%	\$39.69	\$1,587.60	\$6,667.92	\$80,015.04
Heating/Air Conditioning & Refrigeration Workers	19,700	22,200	2,500	12.70%	\$22.81	\$912.40	\$3,832.08	\$45,984.96
Industrial Engineers	19,400	24,700	5,300	27.30%	\$40.79	\$1,631.60	\$6,852.72	\$82,232.64
Mechanical Drafters	3,900	4,200	300	7.70%	\$25.13	\$1,005.20	\$4,221.84	\$50,662.08

These selected occupations with information on job growth, percent growth and earning potentials are based on information found at www.labormarketinfo.edd.ca.gov

¹ **Mean:** Midpoint between highest & lowest

² **Weekly:** Based on 40 hours

³ **Monthly:** Based on 168 hours



TIPS FOR JOB SEEKERS

How can you improve your chances of getting a job? Applying for a job is the easy part, but getting it can be more of a challenge. Following these five tips can help you reach your goal:

1 The Job

- Determine your interests: talk to others and consider your hobbies and talents
- Search “career assessments” on the Internet

2 The Resume

- Should be easy to read: not too long, too wordy or too cluttered
- Make it powerful
- Show you can cooperate, you can learn, and you can do

3 The Application

- Make it neat, complete and accurate
- Include recommendations from teachers, employers, coaches, friends, etc.

4 The Interview

- Show enthusiasm: it separates the winners from the losers
- Dress appropriately/similar to those on the job

5 The Follow-up

- Send a thank you note
- Call to see if a decision has been made
- If not, ask, “Am I still a candidate?”
- If you are, ask, “Is it okay if I call back in a couple of days?”



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This material is made pursuant to agreement number 07-0170a of the CTE Community Collaborative Supplemental grant. Funds were administered by the Governor's CTE Initiative SB70/SB 1133 through the California Community Colleges 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.