**What is engineering?**

Engineering programs are designed to train people to design and analyze products and processes using principles of mathematics and natural sciences. Engineers need to think in scientific and mathematical terms, have the ability to study data, sort out important facts, solve problems, and be logical thinkers. Creativity is useful. Schools may offer programs in general engineering or in specialized engineering fields. Major specialties include: Civil Engineering, Mechanical Engineering, Electrical Engineering. Other specialties may include: Aeronautical, Agricultural, Architectural, Biomedical, Chemical, Computer, Electronic, Environmental, Nuclear, Petroleum, Industrial, and Mining Engineering.

**LAMC Degrees & Certificates Offered:**

* **Associate of Science** in Engineering
* **Certificate of Achievement** in Engineering Drafting Technician

**Areas of Interest**

* Complex problem solving
* Designing and developing
* Working with blueprints
* Precise measuring
* Working with circuit boards
* Predicting outcomes
* Building and constructing
* Working with numbers
* Working with materials
* Production processes

**Skills**

* Operation monitoring
* Technology design
* Time management
* Troubleshooting
* Operations analysis
* Oral comprehension
* Information ordering
* Perceptual speed
* Problem sensitivity
* Visualization

**Transfer Related Majors**

* **CSU Dominguez Hills:** Engineering
* **CSU Fullerton:** Engineering, Electrical Engineering
* **CSU Long Beach:** Aerospace Engineering
* **CSU Los Angeles:** Electrical Engineering
* **CSU Northridge:** Construction Management
* **Cal Poly Pomona:** Electronic Systems Engineering
* Technology
* **UC Irvine:** Civil Engineering, Electrical Engineering
* **UC Davis:** Civil Engineering, Chemical Engineering
* **UC Berkeley:** Civil Engineering, Mechanical
* Engineering
* **UC Merced:** Environmental Engineering

**Potential Job Titles**

* Mechanical Engineers
* Manufacturer
* Factory manager
* Facility designer
* Chief engineer
* Construction engineer
* Robotics technician
* Aviation inspector
* Robotics engineer
* Aerospace Engineers
* Automotive engineering technician
* Civil engineering technician

**Potential Employers**

* Motor vehicle parts manufacturing
* Aerospace product and parts manufacturing
* Architectural, engineering, and related services
* Entrepreneur
* Microsoft
* Apple

**Work Environment**

* Some work in industrial plants where they are exposed to the same conditions as other workers
* When meeting project deadlines, overtime may be necessary
* Some stress may be experienced when working with a short timeline or with a tight budget
* Workers perform the work indoors and outdoors

**Earnings:**

Earning can vary by occupation and experience. The following are average annual wages as of 2019 in California based on *California Career Zone* <https://www.cacareerzone.org/>

**Helpful Resources:**

* LAMC Career Center: [www.lamission.edu/careercenter](http://www.lamission.edu/careercenter)
* CSU Majors: degrees.calstate.edu
* UC Majors: admission.universityofcalifornia.edu
* Career Exploration: cacareerzone.org

For more detailed guidance on degrees, or career advice, you can contact the LAMC
Career Center at **careercenter@lamission.edu**.