

## Unique Extracurricular Activities

The learn-by-doing concept does not stop when class or lab is over. The ME department offers a wealth of design and build extracurricular activities.

The department boasts student chapters of the American Society of Mechanical Engineers (ASME), ME Honor Society (Pi Tau Sigma), Society of Automotive Engineers (SAE), and American Society of Heating, Refrigeration, & Air-conditioning Engineers (ASHRAE). Nearly all students are involved in one or more of these professional activities which afford professional and social contacts, as well as group projects.

- MINI BAJA: All terrain vehicle competition
- FORMULA SAE: Open wheel sports car design competition
- ASHRAE STUDENT COMPETITION: Predefined HVAC system selection and design competition
- ROBOTIC DESIGN COMPETITION : Mechanism and robot design and building
- HYBRID FORMULA SAE: High performance, plug-in hybrid vehicle competition

## Department of Mechanical Engineering

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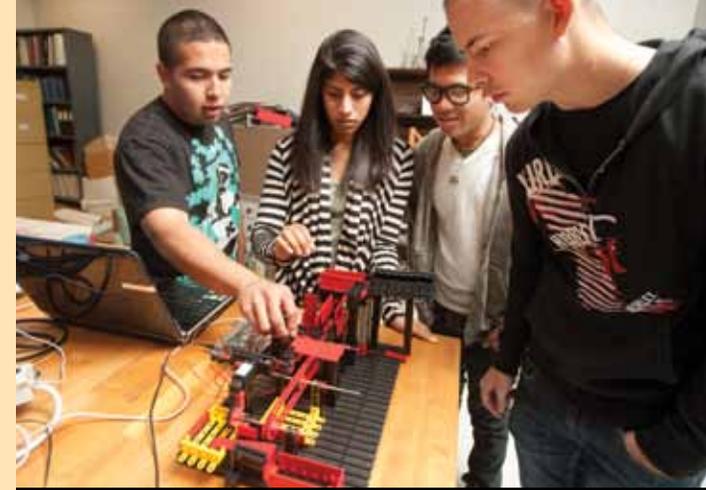


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# Mechanical Engineering

*Bachelor of Science in Mechanical Engineering*

Studying Mechanical Engineering at Cal Poly Pomona will equip you with a broad education, preparing you for a variety of career paths after graduation and will provide a solid foundation for your continuing education.

CAL POLY POMONA

## What is Mechanical Engineering?

Mechanical engineering (ME) plays a dominant role in enhancing safety, economic vitality, enjoyment and overall quality of life throughout the world. As a mechanical engineer, you will use the latest technologies to solve today's problems in health care, energy, transportation, world hunger, space exploration, climate change and environmental sustainability.

Graduates of our department work at top companies in a variety of industries, including:

- Defense – Northrop Grumman, Raytheon, Lockheed Martin
- Automotive – Ford, Toyota
- Energy – GE, BP, Chevron
- Aerospace – Boeing, Parker Aerospace, JPL
- Chemical & Biotechnology – DuPont, Amgen, Conoco Philips
- Computer & Electronics – HP, Intel, Broadcom
- Building HVAC Systems – Carrier, Trane
- Infrastructure & Construction – Fluor Engineering, Bechtel, Parsons
- Engineering Consulting – Anderson Engineering



Cal Poly Pomona is one of only six polytechnic universities nationwide. Directly stemming from its polytechnic mission, Cal Poly Pomona is well-known for its *learn-by-doing* philosophy. The Mechanical Engineering Department distinguishes itself in many ways:

### Balancing Analytical and Hands-on Learning

Our core curriculum provides students a solid grounding in the theory behind traditional and emerging areas in mechanical engineering, combined with hands-on learning through subject-orientated laboratories, and design and build activities. Students are also engaged through one-on-one senior research project with a faculty member in their chosen area of interest.

### Big Department, Small Classes

The Department enrollment exceeds 1,000 students. However, each and every class in our department is taught by professors with an average class size of 28 students and average lab size of 14.

### Nurturing Communications and Teamwork

ME students receive top-notch training in communication skills throughout the curriculum requiring both writing and presentation. Our students typically prepare more than 50 reports and presentations before they graduate. Teamwork is strongly emphasized in the department. Students work collaboratively in labs, and on design and build projects. Nearly half of the core classes involve team experience.

### Excellent Faculty and Advising Scheme

ME faculty have a wealth of knowledge and experience in academia and industry. They are dedicated to mentorship and to providing students with excellent education. Under a unique student-faculty interaction scheme, each student is assigned to a faculty member for advising throughout his/her years in Cal Poly Pomona.

### Real-World Experience

Our excellent program provides many opportunities for you to experience engineering practice in industry while you are still a student. These opportunities, which usually occur during junior and senior years, include senior design, competition projects, internships and co-ops.

### The Career Advantage

In ME Department, about 90% of our students graduate with 3 to 18 months of meaningful work experience. Over the years, our department has established long-time relationships with virtually every industrial sector to offer internships to ME students. The Co-Op program also offers summer or quarter internship opportunities for the students.



### Bronco Engineers are in High Demand

Industry professionals repeatedly tell us that our approach to engineering education makes our graduates extremely valuable in the job market.

Each year an impressive range of employers come to Cal Poly Pomona's Hi-Tech Career Fair to recruit students.

