

Meet the Chair



Saeid Motavalli, Ph.D. P.E.

On behalf of the School of Engineering here at CSU East Bay, I am writing this welcome message for any prospective student interested in Computer Engineering BS, Civil Engineering BS, Industrial Engineering BS, Construction Management BS, Construction Management MS, and Engineering Management MS.

Our department is comprised of engaged faculty who strive for excellence in both teaching and research. Our programs are designed for a diverse student population with a diverse set of goals, whether to join the workforce or continue their education at the graduate level. I love to teach computer-aided manufacturing, production planning and control, facilities planning, and manufacturing measurement. I am interested in problems related to process flow analysis, facilities planning, workplace design/ergonomics, and manufacturing measurement. I look forward to helping educate, guide, and mentor students who find their way into my classes and programs to set them on a path to lifelong success.

Careers for Majors

Computer Engineering

- High-tech industry as an electronic engineer
- Design engineer for electronic systems
- Automotive and aerospace industry designing embedded computer systems

Industrial Engineering

Industrial engineers can work in a variety of manufacturing and service industries. Typical career paths are listed here.

Manufacturing Industry:

- Manufacturing Engineer
- Production Engineer
- Quality Engineer
- Engineering Manager
- Automotive, Aerospace, and Electronic Manufacturers

Service Industries:

- Industrial Engineer
- System Analyst
- UPS, FedEx, Airlines, Banks

Contact Us

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CAL STATE
EAST BAY

SCHOOL OF ENGINEERING

Welcome to the School of Engineering

We are a community of students, staff, and faculty dedicated to advancing knowledge in Engineering and the world around us, the world inside us, and the world beyond us. Our curriculum emphasizes hands-on experience, real-world applications, and opportunities to work closely with faculty on a research project.



Degrees

Computer Engineering, B.S.

As a graduate of the Bay Area's latest engineering degree program, you'll qualify for a high-potential career in designing and building semiconductor hardware and software systems. Computer engineers are involved in all aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers, to circuit design, as well as the integration of computer systems into other kinds of systems (a motor vehicle, for example, has many subsystems that are computer oriented). Everyday computer engineering tasks include writing embedded software for real-time microcontrollers, working with sensors, designing mixed signal circuit boards, and designing operating systems.

Industrial Engineering, B.S.

Reach your full potential in the engineering field - and realize the future you envision - with an undergraduate degree in Industrial Engineering from California State University, East Bay (CSUEB). As a graduate of the San Francisco Bay Area's newest accredited engineering degree program, you'll qualify for a high-potential career designing, building, and managing state-of-the-art manufacturing and service systems. Industrial Engineers serve an essential need in today's technological society. As the interface between humans and technology, industrial engineers work to improve the quality and efficiency of producing goods and services. The depth and caliber of academic preparation required to excel in this field are embodied in CSUEB's Industrial Engineering curriculum.



Construction Management, B.S.

The goals of the B.S. degree in Construction Management are to prepare effective managers for public and private construction projects, to prepare the workforce required for the expected increase in the State's transportation infrastructure improvements, and to enable high school graduates, transfer students and working professionals to assume leadership roles in the construction industry. Special attention is given to working professionals, with classes offered mainly at times convenient to students.

Civil Engineering, B.S.

This program is designed for individuals planning to advance their knowledge in Civil Engineering and follow career paths in industry, government, consulting, and academia. Special attention is given to working professionals, with classes offered mainly at times convenient to students. Students will take required courses in Structural Analysis, Structural Design, Engineering Materials, Geotechnical Engineering, Computer Applications in Infrastructure, Transportation Engineering, Highway and Pavement Design, Sustainability, and Green Building. Issues in engineering ethics, building design codes, and life cycle analysis are covered. Students will have a broad choice of electives from construction management and engineering courses to customize their expertise.

Graduate Degrees

Engineering Management, M.S.

This degree is designed for working engineers and professionals in leadership/management positions or planning to advance their careers in the management of technical enterprises. It is also intended to benefit engineering or science graduates interested in assuming industry leadership positions. The curriculum is distinctive in providing qualitative management and quantitative industrial engineering skills. Courses are offered in engineering, business, computer science, and statistics.



Construction Management, M.S.

This degree targets working professionals in leadership/management positions in the construction industry or planning to advance their careers to manage large construction projects. This program is different from other construction management programs, based on a well-balanced curriculum covering various aspects of the construction management profession. Special attention is given to working professionals, with classes at times convenient for the students. Students will take required courses in legal and environmental issues in construction, advanced technology, project planning, and control, cost estimating, and financial and risk management issues. With department approval, students will also have a broad choice of electives from construction management, engineering, business, or other graduate courses.

