

ENGINEERING TECHNOLOGY

Program Description

Engineers are the driving force behind the modern world, solving complex problems and designing innovative solutions to enhance our everyday lives. They bridge the gap between scientific discovery and practical application, using their technical expertise and creativity to make a lasting impact on society.

At MSJC, our Engineering program is designed to equip aspiring engineers with a strong foundation in the principles and practices of the field, preparing them for a diverse range of career paths. Our comprehensive curriculum covers key engineering disciplines, including Civil, Architectural, Electrical/Electronics, Mechanical, and Manufacturing.

Our students gain valuable experience in research and development, design, planning, construction, manufacturing, information systems, environmental sustainability, and management. Graduates of our program go on to work for leading companies, contribute to cutting-edge research, or even start their own businesses.

MSJC's Engineering program is committed to providing students with the tools and resources they need to succeed, whether they plan to directly enter the workforce or continue their education in the field. Join us on the journey to become an engineer and make a lasting impact on the world around you.

Engineering Technology Department Page (<https://www.msjc.edu/engineeringtechnology/>)

Transfer Preparation

Transfer students are advised to do research on prospective majors and careers. The MSJC Transfer Center and MSJC catalog can be helpful tools. Students interested in transferring to CSU's or UC's can access major preparation by visiting ASSIST (<http://www.assist.org>). All students are advised to meet with a counselor at least once a semester to create or update their comprehensive education plan.

Contact Information

San Jacinto Campus

(951) 487-MSJC (6752)
1-800-624-5561
Stephen Hamrick (951) 639-5448
shamrick@msjc.edu

Meniffee Valley Campus

(951) 672-MSJC (6752)
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Stephen Hamrick (951) 639-5448
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Degrees/Certificates

Degrees

Non-Transfer Degrees

- Engineering, A.S. (<https://catalog.msjc.edu/instructional-programs/engineering-technology/engineering-as/>)

- Engineering: Drafting Technology, A.S. (<https://catalog.msjc.edu/instructional-programs/engineering-technology/engineering-drafting-technology-as/>)

Certificates

- Engineering Technologist Support Certificate (<https://catalog.msjc.edu/instructional-programs/engineering-technology/engineering-technologist-support-certificate/>)
- Engineering: Drafting Technology Certificate (<https://catalog.msjc.edu/instructional-programs/engineering-technology/engineering-drafting-technology-certificate/>)

Employment Concentrations

- Surveying Employment Concentration (<https://catalog.msjc.edu/instructional-programs/engineering-technology/surveying-employment-concentration/>)

Program Learning Outcomes

- Students will demonstrate technical skills used in the industry for engineering technology disciplines such as advanced manufacturing, civil and architectural, and electronics.
- Students will use the principles of engineering design to develop a solution, device, or process that resolves a problem or improves an existing solution.
- Students will solve technical problems in engineering technology using a combination of mathematics, computer software, scientific principles, and relevant skills.

Careers and Salaries

Discover in-demand careers and education options based on your interests! See the list of careers below or explore further by searching for **Careers or Programs** (<https://msjc.emsicc.com>).

Note: There are no guaranteed positions for students completing these programs. Education and work experience required will vary by employer. The salary and benefits for specific occupations will be dependent on work experience, education, background, and employer. Labor market statistics are from the Bureau of Labor Statistics, US Census Bureau, O-NET, EMSI.

| Career/Industries | CA Annual Median Salary or Range | Employment Demand or Opening CA |
|---|----------------------------------|---------------------------------|
| Surveying and Mapping Technicians (C, A) | \$70,157 | 669 |
| Civil Engineering Technologist and Technician (C, B, M) | \$78,228 | 740 |
| Mechanical Engineering Technologists (C, A, B) | \$76,843 | 387 |

(degree required: SM some college, C: Certificate, A: Associate degree, B: Bachelor's degree, M: Master's degree, D: Doctorate)