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To learn more about Industrial Engineering as a career
Visit: www.engr.sjsu.edu/ise to learn more about ISE at
San Jose State University.

What ISEs Do

Industrial engineering is about choices. Other engineering disciplines apply skills to very specific areas. IE gives practitioners the opportunity to work in a variety of businesses.

Many practitioners say that an industrial engineering education offers the best of both worlds: **an education in both engineering and business.**

The most distinctive aspect of industrial engineering is the [flexibility](#) it offers. Whether it's shortening a rollercoaster line, streamlining an operating room, distributing products worldwide, or manufacturing superior automobiles, all these challenges share the common goal of saving companies money and increasing efficiencies.

As companies adopt management philosophies of continuous productivity and quality improvement to survive in the increasingly competitive world market, the need for industrial engineers is growing. Why? **Industrial engineers are the only engineering professionals trained specifically to be productivity and quality improvement specialists.**

[Industrial engineers figure out how to do things better.](#) They engineer processes and systems that improve quality and productivity. They work to eliminate waste of time, money, materials, energy, and other commodities. This is why many industrial engineers end up being promoted into management positions.

Many people are misled by the term industrial engineer. **It's not just about manufacturing.** It also encompasses service industries, with many IEs employed in entertainment industries, shipping and logistics businesses, and health care organizations.

The benefits of industrial engineering are widespread:

- **More efficient and more profitable business practices**
- **Better customer service and product quality**
- Improved efficiency
- **Increased ability to do more with less**
- **Making work safer, faster, easier, and more rewarding**
- **Helping companies produce more products quickly**
- **Making the world safer through better designed products**
- Reducing costs associated with new technologies



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