



Industrial and Systems Engineering

POSSIBLE POSITIONS

- **Business analyst/consultant:** Perform business process analysis to identify opportunities to re-engineer business processes, improve efficiencies, and reduce costs. Also provides comprehensive assessments and recommendations for existing and potential engineering projects.
- **Data analyst:** Perform statistical analysis to recommend improved business decisions based on data insights.
- **Engineering and manufacturing solutions analyst:** Develop tools, implement designs, or integrate machinery, equipment, or computer technologies to ensure effective manufacturing processes.
- **Industrial engineer:** Design, test, and evaluate systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination.
- **Supply chain analyst:** Assist organizations in managing inventory by solving control, warehousing, and transportation issues.
- **Operations engineer:** Evaluate and provide recommendations to improve the effectiveness of manufacturing, supply chain, and service systems.
- **Project manager:** Plan, direct, and coordinate activities of company projects.
- **Systems engineer:** Perform the requirements, analysis, and definition of the overall system and its subsystems.

***Some of these positions may require an advanced degree.*

INDUSTRIES

- | | | |
|------------------------|-------------------------|--------------------------------|
| • Aerospace | • Entertainment | • Military |
| • Banking and finance | • Forestry and logging | • Oil and gas |
| • Construction | • Insurance | • Plastics and forming |
| • Consulting | • Medical device | • Retail |
| • Electronics assembly | • Healthcare operations | • State and Federal Government |
| • Energy | • Manufacturing | • Transportation |

EMPLOYERS

- | | | |
|----------------------------------|------------------------------|----------------------------|
| • 3M | • Emerson | • Land O'Lakes |
| • Amazon | • ExxonMobil | • Medtronic |
| • Andersen Corporation | • General Mills | • Seagate Technology |
| • Boston Scientific | • Heraeus Medical Components | • Target Corporation |
| • Cargill | • Honeywell | • The Schwan Food Company |
| • Cognizant Technology Solutions | • Hormel Foods Corporation | • UnitedHealth Group/Optum |
| • Deloitte | • HUSCO International | • United Parcel Service |
| • Eaton | • IBM | • West Monroe Partners |

More Information

Career Center: cse.umn.edu/career

Salary Information: z.umn.edu/csosalary

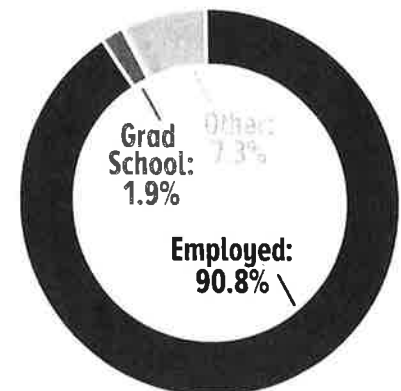
More Information on

Undergraduate Majors: cse.umn.edu/majors

CSE Career Outcomes

Average Starting Salary:
\$65,907*

Post-graduation Outcomes:*



Please visit the Career Center to continue exploring this major.

**Salary and Career Outcomes gathered from the 2017-2018 CSE Graduation Survey
Post-graduation outcomes reflect the percentage of students who were employed full-time in their field or were enrolled in a graduate program.*