

BACHELORS INDUSTRIAL & OPERATIONS ENG

TOP INDUSTRIES

1. Consulting
2. Automobiles & Parts
3. Financials
4. Software & Computer Services
5. Personal & Household Goods

SAMPLE JOB TITLES

- Business Analyst
- Consultant
- Data Engineering and Analytics
- Decision Analytics Associate
- Industrial Engineer
- Investment Banking Analyst
- Operations Analyst
- Route Planning and Scheduling
- Sourcing Specialist
- Strategy and Transactions Associate
- Supplier Quality Engineer
- Supply Chain Specialist

TOP HIRING COMPANIES



SAMPLE HIRING COMPANIES

- ABB
- Airtech Equipment
- Amazon
- American Express
- Arriver
- Arup
- Bank of America
- Barclays
- Boeing
- bp
- Brain Corp
- Capgemini Invent
- Capital One
- Caterpillar
- Cummins
- Eaton
- EY Parthenon
- Filtra-Systems
- Flow Traders
- Ford Motor Company
- GE Healthcare
- General Mills
- Genesis10
- Genie Industries
- Goldman Sachs
- Gopuff
- Grainger
- HealthScape Advisors
- Huron Consulting
- IET
- Kaufman Hall
- Kenway Consulting
- KPMG
- Lear
- Manhattan Assoc.
- Microsoft
- Moelis & Company
- Morgan Stanley
- Morningstar
- Nike
- NITS Solutions
- Oracle
- Publicis Sapient
- Rockwell Automation
- SpaceX
- Stellantis
- Strategy&
- Target
- Thermo Fisher Scientific
- U.S. Postal Service
- United Airlines
- Walmart
- West Monroe Partners
- Xylem

FULL TIME ANNUAL SALARY

Average: \$85,271

Min
\$55,000

Median
\$80,000

Max
\$170,000

INTERN MONTHLY SALARY

Average: \$4,701

Min
\$2,600

Median
\$4,139

Max
\$13,867

Data above are from 2021-2022.
Visit career.engin.umich.edu/career/salary-info for more comprehensive data.



MICHIGAN ENGINEERING
ENGINEERING CAREER RESOURCE CENTER
UNIVERSITY OF MICHIGAN

career.engin.umich.edu
ecrc-info@umich.edu
734-647-7160

BACHELORS INDUST & OPS ENG

SAMPLE ELEVATOR PITCH

Hi, my name is [NAME]. I'm a sophomore studying Industrial and Operations Engineering and I'm interested in your product management internship.

I am the Inventory Lead for the Michigan Concrete Canoe Team where I ensure that the necessary materials and tools are available for meetings and competitions. I have streamlined the process by creating a spreadsheet with order form templates and automatic reminders of when materials are running low in line with our ROP policy.

My experience with itemization and working with a team would aid me in a product management role. Would you be able to tell me more about your internship program?

SAMPLE IMPACT STATEMENT

Before - Ran usability studies

After - Coordinated usability studies to demonstrate product features and solicit feedback from 25 potential customers to identify areas for improvement

KEY COURSES

IOE 201 - Economic Decision Making; beginnings of financial engineering; group project analyzing an investment opportunity posed to a company and make a recommendation

IOE 202 - Introduction to Operations Modeling; linear programming and supply chain management

IOE 373 - Data Processing and Analytics: learn SQL, VBA, Python, & practical applications of MS Excel & Access; Design and complete a real-world, extensive data analysis project in a group setting

IOE 424 or 481 - Senior Design Project; IOE capstone; IOE 424 partners students with a real-world client in industry; 481 pairs students with clients in the Michigan Medicine system; Opportunities for simulation/policy implementation and industry exposure

KEY SKILLS

VBA - coding language used within MS Excel and other office programs

SQL - standard language for relational database management systems

Python - an interpreted, high-level, general-purpose programming language; used in IOE 373

Promodel - modeling software used to plan, design and improve new or existing manufacturing and logistics

R - programming language for statistical computing and graphics

SAMPLE EXTRACURRICULARS

Center for Healthcare Engineering & Patient Safety (CHEPS)

Institute of Industrial and Systems Engineers (IISE)

Institute for Operations Research & Management Sciences

Alpha Pi Mu - Honors Society

Human Factors & Ergonomics Society

MECC Consulting Group

