

# BACHELORS INDUSTRIAL & OPERATIONS ENG

## TOP INDUSTRIES

1. Consulting
2. Automobiles & Parts
3. Financials
4. Aerospace & Defense
5. Personal & Household Goods

## SAMPLE JOB TITLES

- Associate Consultant
- Business Analyst
- Data Analyst
- Industrial Engineer
- Investment Banking Analyst
- Leadership Development Rotational Program
- Manufacturing Engineer
- Operations Analyst
- Process Engineer
- Sales Operations Coordinator
- Supply Chain Analyst
- Technical Solutions Engineer

## TOP HIRING COMPANIES



## SAMPLE HIRING COMPANIES

- Ace Hardware
- Ameren
- American Airlines
- Analog Devices
- Anheuser Busch InBev
- Bain & Company
- Bosch
- Boston Consulting Group
- bp
- Brunswick
- Burns & McDonnell
- Capgemini Invent
- CarMax
- Collins Aerospace
- Credit Agricole
- Delta Air Lines
- Epic
- Estée Lauder
- EY
- Flow Traders
- Ford Motor Company
- General Dynamics
- General Electric
- Gibson Consulting
- Goldman Sachs
- Gore & Associates
- Grainger
- Husco
- Jervis B. Webb
- JPMorgan Chase
- Kearney
- KeyBank
- KPMG
- Lucid Motors
- Metalplate Galvanizing
- Moelis & Company
- Northrop Grumman
- Nostrum Energy
- Pall Corporation
- Paradox
- PepsiCo
- Plastipak Packaging
- Pratt & Whitney
- Pratt Miller
- PremiumIQ
- Rivian Automotive
- SpaceX
- Stryker
- S&P Global
- Trane
- United Airlines
- U.S. Postal Service
- Walmart
- Walt Disney

## FULL TIME STARTING ANNUAL SALARY

Average: \$87,098

<b>Min</b>	<b>Median</b>	<b>Max</b>
\$60,000	\$85,000	\$116,000

## INTERN HOURLY SALARY

Average: \$28.25

<b>Min</b>	<b>Median</b>	<b>Max</b>
\$15	\$26.25	\$55

Data above are from Academic Year 2023.  
Visit [career.engine.umich.edu/career/salary-info](https://career.engine.umich.edu/career/salary-info) for more comprehensive data.

# 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**

