



# INDUSTRIAL AND MANUFACTURING ENGINEERS

NOC 21321

Conduct studies and develop and supervise programs to achieve the best use of equipment, human resources, technology, materials and procedures to enhance efficiency and productivity.



## 3-YEAR OUTLOOK



*Undetermined*

## 3-YEAR JOB OPENINGS

**11**

## MEDIAN HOURLY WAGE

**\$43.03**

\$27.95 \$64.09  
LOW HIGH

## TYPICALLY REQUIRED



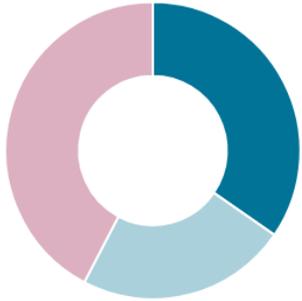
University

## EMPLOYED

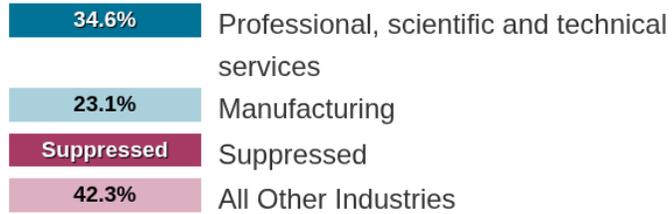
**112**

## AVERAGE SALARY

**\$90,000**



## EMPLOYMENT BY INDUSTRY



## EMPLOYMENT BY AGE



## ALSO KNOWN AS

- Computer Integrated Manufacturing (CIM) Engineer
- Fire Prevention Engineer
- Industrial Engineer
- Manufacturing Engineer
- Plant Engineer
- Production Engineer

## MAIN DUTIES:

- This group performs some or all of the following duties:
- Plan and design plant layouts and facilities
  - Study new machinery and facilities and recommend or select efficient combinations
  - Develop flexible or integrated manufacturing systems and procedures
  - Conduct studies and implement programs to determine optimum inventory levels for production and to allow optimum utilization of machinery, materials and resources
  - Analyze costs of production
  - Design, develop and conduct time studies and work simplification programs.

