ENGINEERING MANAGEMENT

Engineering Management is an interdisciplinary problem-solving field and Engineering Managers use their knowledge of engineering to oversee a variety of activities. They must understand the technologies being developed as well as the rapidly changing marketplace in which these technologies will be applied. Engineering Managers may direct and coordinate building activities at construction sites or activities related to production, operations, quality assurance, testing, or maintenance at manufacturing sites. They are also responsible for developing the overall concept of a new product or for solving the technical problems that prevent the completion of a project. The department has developed innovative educational and research programs that which cross disciplinary and departmental boundaries to achieve this goal.

Skills Acquired
- Project, people, and resource management
- Effective communication and leadership
- Identify and anticipate problems as well as solutions
- Work on multidisciplinary teams
- Manage details and understand complex systems

Sample Occupations
- Engineering Manager
- Engineering Director
- Engineering Program Manager
- Project Manager
- Senior Lead Analyst
- Cost Systems Analyst
- Construction Management Engineer
- Industrial Management Engineer

Sample Work Settings
- Government and Defense
- Engineering and Technology
- Semiconductor and Other Electronic Component
- Mining, Quarrying, and Oil and Gas
- Manufacturing
- Computer and Peripheral Equipment
- Architecture
- Navigational, Measuring, Electromedical, Control Instruments Manufacturing
- Petroleum and Petroleum Products Merchant
- Wholesalers

Sample Employers
- Anheuser-Busch Inc.
- Bose Corporation
- Johnson and Johnson
- Kraft Food
- Lockheed Martin
- Microsoft Corporation
- NASA
- Sony Electronics
- Coca-Cola
- Hershey

Engineering Manager Annual Salary (BLS, 2017): Regional Average: $147,240 | National Average: $146,290

PROFESSIONAL ORGANIZATIONS
Learn more about the field, network, and search for scholarship, internship, and job opportunities.
- American Society for Engineering Education http://www.asee.org
- American Society for Quality www.asq.org
- Institute for Operations Research and the Management Sciences (INFORMS) www.informs.org
- National Society of Professional Engineers www.nspe.org

JOB SEARCH RESOURCES
Keywords: Engineering Management, Project Management, Engineering Consultant
- Engineering Central www.engcen.com
- Engineering Jobs www.engineerjobs.com
- Engineering.com www.engineering.com/jobs
- iHireEngineering www.ihireengineering.com
- Hired https://hired.com