The Career Center at Loyola University Maryland

ENGINEERING

What can I do with this major?

PRINT RESOURCES

(All Available in the Career Resource Library in The Career Center)

Great Jobs for Engineering Majors
(CS/MA/ES Category)

Opportunities in Engineering
(CS/MA/ES Category)

Careers in Engineering
(CS/MA/ES Category)

Opportunities in Aerospace Careers
(CS/MA/ES Category)

Careers in Renewable Energy
(ENV Section)

Green Jobs
(ENV Section)

Guide to Government Jobs
(GOV Section)

How to Write a Winning Personal Statement for Graduate and Professional School
(Grad Section)

Graduate Programs in Engineering and Applied Sciences
(Grad Section)

OVERVIEW OF MAJOR

After graduation, many engineering graduates pursue employment in a variety of industries including aerospace, construction, environmental, oil & gas, energy, and mechanical. Some continue their education in a specialized field immediately after graduation while other pursue an MBA or advanced engineering degree after a few years in the workforce.

ENGINEERING DEPARTMENT SITE:
www.loyola.edu/academic/engineering.aspx

COURSE CATALOGUE:
www.catalogue.loyola.edu/catalogues/current/undergraduate/artsandsci/engineering.html

ACADEMIC ADVISING AND SUPPORT CENTER:
www.loyola.edu/department/aasc.aspx

POTENTIAL JOB TITLES

- ◊ Associate Engineer
- ◊ Project Engineer
- ◊ Environmental Engineer
- ◊ Data Exchange Engineer
- ◊ Telecommunications Project Officer
- ◊ Automotive Engineer
- ◊ Materials Research Engineer
- ◊ Planning and Allocation Analyst
- ◊ Aerospace Engineer
- ◊ Mechanical Engineer
- ◊ Genetic Engineer
- ◊ Software Engineer
- ◊ AutoCAD Operator
- ◊ Jr. Network Administrator
- ◊ Consultant
- ◊ Electrical Engineer
- ◊ Field Engineer
- ◊ Test Engineer

WHERE CAN I GET AN INTERNSHIP?

- ◊ Northrop Grumman Corporation
- ◊ AAI Corporation
- ◊ Constellation Energy
- ◊ Accenture
- ◊ Booz Allen Hamilton
- ◊ Whitman, Requardt & Associates
- ◊ Boeing
- ◊ Hauber Summer Research Program
- ◊ Lockheed Martin Corporation
- ◊ Whiting-Turner Contracting Company
- ◊ Space Telescope Science Institute
- ◊ Computer Science Corporation
- ◊ Accenture
- ◊ IBM Corporation
- ◊ Middle River Aircraft Systems
- ◊ General Electric

Sample Web Resources

American Institute of Aeronautics & Astronautics

www.aiaa.org

American Institute of Chemical Engineers

www.aiche.org/CareerResources

American Society of Civil Engineers

www.asce.org/ProgramProductLine.aspx?id=2147485282

American Society of Mechanical Engineers

www.asme.org/Jobs

Biomedical Engineering Society

www.bmes.org/aws/BMES/pt/sp/jobs

Institute for Electrical & Electronic Engineers

www.ieee.org/education_careers/index.html

Institute for Industrial Engineers

www.iienet2.org/Landing.aspx?id=388

National Academy of Forensic Engineers

www.nafe.org

National Society of Professional Engineers

www.nspe.org

Sample graduate programs pursued by Engineering majors:

- ◊ MS, Biomedical Engineering
- ◊ MS, Applied Mechanics
- ◊ PhD, Electrical Engineering
- ◊ PhD, Material Science
- ◊ MS, Mechanical & Aeronautical Engineering
- ◊ MS, Forensic Engineering
- ◊ MBA
- ◊ PhD, Civil Engineering
- ◊ PhD, Chemical Engineering

Possible Career Fields

AEROSPACE

Propulsion ◊ Structures ◊ Thermodynamics ◊ Guidance & Control
Acoustics ◊ Fluid & Celestial Mechanics

Biosystems Engineering

Environmental Control ◊ Power & Machinery ◊ Electronic Systems
Food & Genetic Engineering ◊ Agricultural Structures

Biomedical

Bioengineering (Design, Development, Manufacturing)
Medical (Instrumentation, Materials, Artificial Organs, Devices)

Chemical

Design & Construction ◊ Environmental & waste Management

Civil

Structral ◊ Water Resources ◊ Geotechnical ◊ Surveying & Mapping
Construction ◊ Urban & Community Planning ◊ Transport & Pipeline

Electrical/Computer

Power Electronics/Systems ◊ Computer & Plasma Engineering
Computer Vision ◊ Image Processing & Robotics ◊ Control Systems

Industrial

Operations Research ◊ Manufacturing ◊ Computer Systems Design

Materials Science

Ceramics ◊ Plastics/Polymers ◊ Metallurgy ◊ Research ◊ Process
Extractive ◊ Applications ◊ Service, Sales ◊ Consulting

Mechanical

Power Generation ◊ Thermal/Fluids ◊ Robotics

Environmental

Possible Work Settings

Aircraft & Space Industries ◊ State & Federal Government
Manufacturers ◊ Equipment & Food Industries ◊ Consulting Firms
Agricultural Industries ◊ Biotechnology Firms ◊ Hospitals
Healthcare Facilities ◊ Chemical Industry ◊ Research Firms
Oil & Utility Companies ◊ Architechural Firms ◊ Telecommunications
Construction & Transportation Industries ◊ Distrubtors
Banks & Financial Institutions ◊ Education Institutions ◊ Military

Important Skills & Abilities

Communication & Interpersonal ◊ Team Player ◊ Computer
Logical Thinking ◊ Problem Solving ◊ Math ◊ Analytical ◊ Creative
Organized & Detailed ◊ Work well under pressure ◊ Presentation
Perseverance ◊ Technical Aptitude ◊ Technical Report Writing

Contact The Career Center:

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www.loyola.edu/thecareercenter