What Can I Do With a Major in Engineering?

Below is a list of job titles, employers and graduate schools that Harvey Mudd College engineering alumni have chosen in the last five years.

**Job Titles**

- Analyst
- Antenna Design Engineer
- Applications Engineer
- Assistant Producer
- Assistant Technical Staff
- Associate Consultant
- Associate Process Manager
- Associate Process/Specialty Engineer
- Avionics Build Engineer
- Business Analyst
- Component Design Engineer
- Consulting analyst
- Data and Policy Analyst
- Digital Applications Rotation Engineer
- Digital Design Engineer
- Drafter
- Dynamic Environments Engineer
- Education Consultant
- Electrical Engineer
- Electro-Mechanical Engineer
- Embedded Systems Engineer, Co-Founder
- Energy Analyst
- Field Research
- Financial Analyst
- Firmware Engineer
- Flight Engineer
- FPGA Engineer
- Fuel Cell Technician/Engineer
- Hardware Engineer
- HVAC Engineer
- Instrumentation Engineer
- Junior R&D Engineer
- Laboratory Technician
- Loads Engineer
- Manufacturing Engineer
- Mechanical Engineer
- Motion Scientist
- Navigation Engineer
- Nuclear Engineer
- Patent Engineer
- Performance and Flying Qualities
- Print Production Manager
- Process Engineer
- Product Analyst
- Product Systems Engineer
- Project Engineer
- Quality Analyst
- Quantitative Researcher
- Radio Frequency Engineer
- Reliability Engineer
- Research Engineer
- RF Engineer
- Rotational Engineer
- Scientist
- Signal Processing Engineer
- Software Engineer
- Spacecraft Electrical Engineer
- Analyst
- Antenna Design Engineer
- Applications Engineer
- Assistant Producer
- Assistant Technical Staff
- Associate Consultant
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- Performance and Flying Qualities
- Print Production Manager
- Process Engineer
- Product Analyst
- Product Systems Engineer
- Project Engineer
- Quality Analyst
- Quantitative Researcher
- Radio Frequency Engineer
- Reliability Engineer
- Research Engineer
- RF Engineer
- Rotational Engineer
- Scientist
- Signal Processing Engineer
- Software Engineer
- Spacecraft Electrical Engineer

**Employers**

- Acumen LLC
- AIC Education
- Airforce Flight Test Center
- Aliston Trading
- Alta Motors
- Amazon.com
- Arete Associates
- ATS Consulting LLC
- Aura Labs Inc
- Bain & Company
- Beats by Dr. Dre
- Beckman Coulter
- Beckman Laser Institute
- Berkeley Lights
- Bow Labs Inc.
- Broadcom Corporation
- California Medical Innovations
- Cisco Meraki
- ClearEdge Power
- Cobham plc
- Computer Task Group Inc.
- Cosmodyne LLC
- Deloitte
- Department of the Navy
- EA Engineering, Science and Technology Inc.
- Elenion
- Ernst & Young
- Evius Inc.
- F5 Networks
- Fenwick & West LLP
- Fluor Corporation
- Formlabs
- Freescale Semiconductor
- GE Capital
- General Micro Systems Inc.
- Gilead Sciences
- Glumac
- Goldman Copeland Associates PC
- Headlands Technologies
- Heligen
- Hewlett-Packard
- Honeywell Aerospace
- Intel Corporation
- Jet Propulsion Laboratory
- Johnson & Johnson
- Juniper Networks
- Kuleu Semiconductor Products
- Laserfiche
- Layer By Layer
- LeisureLink
- Leyden Energy Inc.
- Lincoln Electric
- Masimo Corporation
- Massachusetts General Hospital
- Matterport
- Mazzeiti Nash Lipsey Burch
- MCB Marine Biological Lab
- McMaster-Carr
- Mercury Systems
- Mesa Preparatory Academy
- Microsoft Corporation
- Millennium Space Systems
- MIT Lincoln Laboratory
- Monogram Systems
- Moog
- Motiv Power Systems Inc.
- Netspeed Systems
- NextEngine
- Niagara Bottling
- Northrup Grumman Corporation
- Nvidia Corporation
- Opto 22
- Oracle Corporation
- OSIsoft
- Pacific Design Technologies Inc.
- Pacific Energy Construction Corporation
- Parco Inc.
- Parker Aerospace
- Peace Corps
- Pearl Harbor Naval Shipyard
- Preston Cinema Systems
- Project A Ventures
- PTAC Consulting Engineers
- Pyramid Technical Consultants
- Qualcomm
- QLogic Corp.
- Raytheon
- Reasoning Mind
- Referentia Systems Inc.
- Riot Games
- Sandia National Laboratories
- Southern California Edison
- Space Computer Corporation
- SpaceX
- SpectraSensors Inc.
- Spot Trading LLC
- SRI International
- Stryker
- Support.com
- Teach for America
- Teledyne Controls Inc.
- Teradyne
- Terumo BCT
- Tesla
- Texas Instruments Inc.
- The Aerospace Corporation
- The Boeing Company
- The Pilot Group
- The Raytheon Company
- Trevec-Avant Corporation
- U.S. Army
- U.S. Navy
- Ursa Major Technologies
- Verily Life Sciences
- ViaSat Inc
- Walt Disney Company
- Waymo
- Western Digital
- Whistle Labs
- ZestFinance
- Zulily

**Starting Salary Summary**

<table>
<thead>
<tr>
<th>High Salary Range</th>
<th>Low Salary Range</th>
<th>Median Salary Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>$120,000 or more</td>
<td>$50,000–$60,000</td>
<td>$80,000–$85,000</td>
</tr>
</tbody>
</table>
Graduate Schools

Baruch College
California Institute of Technology
Carnegie Mellon University
Chalmers University of Technology
Clemson University
Columbia University
Cornell University
Duke University
Florida State University
Georgia Institute of Technology
Harvard-MIT (joint Health Sciences and Technology Program)
John Hopkins University
Massachusetts Institute of Technology
New York University
Northwestern University
Pennsylvania State University
Purdue University
San Jose State University
Stanford University
Tufts University
University of Alberta
University of California, Berkeley
University of California, Irvine
University of California, Los Angeles
University of California, San Diego
University of California, Santa Barbara
University of Colorado, Boulder
University of Florida
University of Illinois at Urbana-Champaign
University of Massachusetts Amherst
University of Michigan
University of Minnesota
University of North Carolina
University of Notre Dame
University of Southern California
University of Texas at Austin
University of Washington
Virginia Tech
Washington University
Law School
Worcester Polytechnic Institute
Yale University

Summer Employers

Accenture*
Aerospace Corp
Alcon
Amazon*
Apple
August Systems*
Auris Health*
Avail Technologies*
Ball Aerospace
Berkeley Engineering Research
Bloom Energy
Blue Origin
Booz Allen Hamilton
Boston University (REU)
Cisco
City of Hope*
Clary Corporation
Cytovalce
Delta Engineering*
DIRECTV
Discover Technology*
Doosan Bobcat
Edgenext
Elo Touch Solutions
Environet*
Fitbit
Formlabs
General Atomics*
Georgia Tech (REU)
Goldman Sachs
Google*
Honeywell
Hospira
HP
Intel
Intentional Software*
Jasper Design*
Johnson & Johnson
JPL
LiveData Inc.*
Masimo
Mayo Clinic (REU)
Meta*
Microsoft
Millennium Space Systems
Moog*
National Renewable Energy Laboratory
Netburner Inc.
Niagara Bottling
Northeastern University (REU)
Northrop Grumman*
Orlio Technologies*
Pacific Gas and Electric*
Pacific Northwest National Laboratory
Pankow Builders*
Pfizer
Qualcomm
Rexnord Aerospace*
Seagate Technology
Sidus Solutions*
Sikorsky Aircraft*
SLAC National Accelerator Lab*
SpaceX
Tetris Inc*
Texas Department of Transportation*
The Aerospace Corporation*
Transaction Wireless*
University of California, Santa Barbara (REU)
Viasat
Voodoo Manufacturing
Whirlpool
Workday
*companies that hired first-year students

Average Summer Wage

<table>
<thead>
<tr>
<th></th>
<th>First-year</th>
<th>Sophomore</th>
<th>Junior</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4,441 stipend</td>
<td>$5,679 stipend</td>
<td>$6,974 stipend</td>
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</tr>
</tbody>
</table>

Here are just a few areas that may interest an engineering major.

Area

ANY ENGINEERING DISCIPLINE

Chemical
Civil
Electrical
Materials
Mechanical
Production
Software
Management consulting
Research and development

Employers

Engineering firms
Business and consulting firms
Federal, state and local government
Colleges and universities
Areas interest for an engineering major (CONTINUED)

<table>
<thead>
<tr>
<th>Area</th>
<th>Employers</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEROSPACE</td>
<td>Aircraft, guided missile and space vehicle industries</td>
</tr>
<tr>
<td></td>
<td>Communications equipment manufacturers</td>
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<tr>
<td></td>
<td>Commercial airlines</td>
</tr>
<tr>
<td></td>
<td>Federal government departments</td>
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<tr>
<td></td>
<td>(e.g., U.S. Department of Defense, NASA)</td>
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<tr>
<td></td>
<td>Business and engineering firms</td>
</tr>
<tr>
<td></td>
<td><strong>Propulsion</strong></td>
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<tr>
<td></td>
<td><strong>Fluid mechanics</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Thermodynamics</strong></td>
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<tr>
<td></td>
<td><strong>Structures</strong></td>
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<td></td>
<td><strong>Celestial mechanics</strong></td>
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<td><strong>Acoustics</strong></td>
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<td></td>
<td><strong>Guidance and control</strong></td>
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<td>BIOSYSTEMS</td>
<td><strong>Technological agricultural industries</strong></td>
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<tr>
<td></td>
<td><strong>Consulting firms</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Equipment design, testing and manufacturing firms</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Equipment and food industries including processing, packing and storing</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Quality control for food, feed, fiber, etc.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Biotechnology research firms</strong></td>
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<tr>
<td></td>
<td><strong>Foreign service</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Natural resources (soil and water conservation)</strong></td>
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<tr>
<td></td>
<td><strong>International consulting</strong></td>
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<tr>
<td></td>
<td><strong>Environmental control</strong></td>
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<tr>
<td></td>
<td><strong>Agricultural structures</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Power and machinery</strong></td>
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<tr>
<td></td>
<td><strong>Electronic systems</strong></td>
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<td></td>
<td><strong>Food engineering</strong></td>
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<td></td>
<td><strong>Genetic engineering technology</strong></td>
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What You Can Do Now

- Gain related work experience obtained through internships and part-time or summer jobs. This is extremely beneficial for engineering majors.
- Develop computer expertise within field.
- Learn to think in scientific and mathematical terms; study data, sort out important facts, solve problems and be a logical thinker. Creativity is useful.
- Practice intellectual curiosity, technical aptitude, perseverance. Develop the ability to communicate and work well with others and gain a basic understanding of the economic and environmental context in which engineering is practiced.
- Develop excellent verbal and written communication skills, including presentation and technical report writing.
- Join related professional organizations.

What You Can Do After Graduation

- An undergraduate degree provides a wide range of career opportunities in industry, business and government.
- A bachelor's degree is good background for pursuing technical graduate degrees as well as professional degrees in business administration, medicine or law.
- Most states require an EIT (engineer-in-training) test before taking a state examination to become a professional engineer (PE).
- Graduate degrees offer more opportunities for career advancement.
- A PhD is optimal for teaching and research center positions.