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
- Associate 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
- Structures Engineer
- Sustainability Analyst/Mechanical Designer
- Systems Engineer
- Teacher
- Technical Project Manager
- Thermal Engineer
- Trader
- Transportation Engineering Associate
- Turbomachinery Engineer
- Valuation Engineer

### Employers

- Acumen LLC
- AIC Education
- Airforce Flight Test Center
- Allston 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
- Euvis Inc.
- Evolis
- Fenwick & West LLP
- Fluor Corporation
- Formlabs
- Freescale Semiconductor
- GE Capital
- General Micro Systems Inc.
- Gilead Sciences
- Glumac
- Goldman Copeland Associates PC
- Headlands Technologies Helogen
- Hewlett-Packard
- Honeywell Aerospace
- Intel Corporation
- Jet Propulsion Laboratory
- Johnson & Johnson
- Juniper Networks
- Kuliie Semiconductor Products
- Laserfiche
- Layer By Layer
- LeisureLink
- Leyden Energy Inc.
- Lincoln Electric
- Masimo Corporation
- Massachusetts General Hospital
- Matterport
- Mazzei 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
- Pyramidal Consulting Engineers
- Qualcomm
- QLogic Corp.
- Raytheon
- Reasoning Mind
- Refera Systems Inc.
- Riot Games
- Sandia National Laboratories
- Southern California Edison
- Space Computer Corporation
- SpaceX
- SpectraSensor Systems 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
- Trivec-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>
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</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
- Northeastern 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
- Edgenity*
- 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
- Northrop Grumman*
- Orfo 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
- Telaris 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>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>
</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><strong>AEROSPACE</strong></td>
<td></td>
</tr>
<tr>
<td>Propulsion</td>
<td>Aircraft, guided missile and space vehicle industries</td>
</tr>
<tr>
<td>Fluid mechanics</td>
<td>Communications equipment manufacturers</td>
</tr>
<tr>
<td>Thermodynamics</td>
<td>Commercial airlines</td>
</tr>
<tr>
<td>Structures</td>
<td>Federal government departments</td>
</tr>
<tr>
<td>Celestial mechanics</td>
<td>(e.g., U.S. Department of Defense, NASA)</td>
</tr>
<tr>
<td>Acoustics</td>
<td>Business and engineering firms</td>
</tr>
<tr>
<td>Guidance and control</td>
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<tr>
<td><strong>BIOSYSTEMS</strong></td>
<td></td>
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<tr>
<td>Natural resources (soil and water conservation)</td>
<td>Technological agricultural industries</td>
</tr>
<tr>
<td>International consulting</td>
<td>Consulting firms</td>
</tr>
<tr>
<td>Environmental control</td>
<td>Equipment design, testing and manufacturing firms</td>
</tr>
<tr>
<td>Agricultural structures</td>
<td>Equipment and food industries including processing, packing and storing</td>
</tr>
<tr>
<td>Power and machinery</td>
<td>Quality control for food, feed, fiber, etc.</td>
</tr>
<tr>
<td>Electronic systems</td>
<td>Biotechnology research firms</td>
</tr>
<tr>
<td>Food engineering</td>
<td>Foreign service</td>
</tr>
<tr>
<td>Genetic engineering technology</td>
<td></td>
</tr>
</tbody>
</table>

**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.