This information describes typical occupations and employment settings associated with this major. Understand that some of these options may require additional training. Moreover, you are not limited to these options when choosing a possible career path.

Description of Engineering
Engineering is about creating new solutions to existing or future problems. Engineers are problem solvers who employ science, math, analysis and synthesis to design unique and practical solutions to everyday problems. They must accomplish this often under the constraints of time, budgets, and safety and health issues. Engineers also must be concerned about the environmental, political and social impact their answers will create.

Researching Job Titles and Careers
O*NET http://online.onetcenter.org (click on Find Occupations)
Occupational Outlook Handbook http://www.bls.gov/oco (type in general term for career of interest)
Georgia Career Information Center http://www.gcic.peachnet.edu (accessible only on campus computers)
Career Insider: Vault Guides http://career.uga.edu/resources/online_resources (Under the “Resources” tab and select “Online Resources”)
Candid Career http://career.uga.edu/resources/online_resources (View professionals speaking about their careers under the “Resources” tab and select “Online Resources”)

Possible Job Titles

<table>
<thead>
<tr>
<th>Application Engineer</th>
<th>Fleet Engineer</th>
<th>Project Engineer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Project Manager</td>
<td>Food Engineer</td>
<td>Project Manager</td>
</tr>
<tr>
<td>Associate Planner</td>
<td>Illuminating Engineer</td>
<td>QC Lab Technician</td>
</tr>
<tr>
<td>Biomedical Engineer</td>
<td>Manufacturing Engineer</td>
<td>Quality Engineer</td>
</tr>
<tr>
<td>Civil Engineer</td>
<td>Mechanical Engineer</td>
<td>Research Engineer</td>
</tr>
<tr>
<td>Conservation Engineer</td>
<td>Molding Analysis Engineer</td>
<td>Sales Engineer</td>
</tr>
<tr>
<td>Controls Engineer</td>
<td>Node Specialist</td>
<td>Service Manager</td>
</tr>
<tr>
<td>Cooperative Manufacturing Engineer</td>
<td>Packaging Engineer</td>
<td>Software Engineer</td>
</tr>
<tr>
<td>Design Engineer</td>
<td>Pharmaceutical Engineer</td>
<td>Systems Engineer</td>
</tr>
<tr>
<td>Distribution Engineer</td>
<td>Plant Process Engineer</td>
<td>Task Engineer</td>
</tr>
<tr>
<td>Electrical Engineer</td>
<td>Principal Engineer</td>
<td>Test Engineer</td>
</tr>
<tr>
<td>Energy Engineer</td>
<td>Process Engineer</td>
<td>Trust Designer</td>
</tr>
<tr>
<td>Environmental Engineer</td>
<td>Product Application Engineer</td>
<td>Water and Wastewater Project Engineer</td>
</tr>
</tbody>
</table>

Possible Employers

- Ashland, Inc.
- Baldor Electric Company
- Bechtel
- Bell South Communications
- Brock Design Group
- Burns and McDonnell
- Carrier Transicold
- Carter & Sloope, Inc.
- Case New Holland
- Caterpillar, Inc.
- City of Gainesville
- Cobb County Department of
- Transportation
- ConAgra, Inc.
- Cryolite, Inc.
- Dynamco
- EcoMetrix Environmental Mgmt
- EMC Corporation
- EnSafe
- FAA
- Food Machinery Service
- Fowler Products
- Georgia Power Company
- Graco Children’s Products, Inc.
- John Deere
- Jordan, Jones, & Goulding
- Kelly Manufacturing
- Load Star
- Logic Technologies
- Lowe Engineers, Inc.
- Lummus
- Merck & Company
- Michelin Tire Company
- Milliken Industries
- NRG Vision
- Pennington Seed
- Pierson Land Surveyors
- Proctor & Gamble
- Reliance Electric
- River Construction
- Robins Air Force Base
- Rockwell Automation
- Savannah River Nuclear Solutions
- SEFCOR Inc.
- Setty Associates International, PLLC
- Siemens
- Smith Planning Group
- Stantec
- Stork Gamco Co.
- TRANE
- Trident Environmental
To learn what types of positions and companies UGA students are working with, see the UGA Career Center Post Graduation Survey at www.career.uga.edu/gradsurveyresults/ and search for alumni on Linked In at www.linkedin.com.

Campus Resources

American Institute of Chemical Engineers-UGA Chapter
American Society of Agricultural and Biological Engineers-UGA Chapter
American Society of Civil Engineers-UGA Chapter
Engineers Without Borders-UGA Chapter
The Society of Environmental Engineers at UGA
Institute of Electrical and Electronics Engineers (IEEE)-UGA Chapter
Society of Hispanic Professional Engineers at UGA
Society of Women Engineers
The National Society of Black Engineers

To find additional clubs and organizations, go to the Center for Student Organizations at http://stuorgs.uga.edu/find/index.html

Connect with your Career Consultant http://career.uga.edu/contact#careerconsultants

Employment Websites

GENERAL:
CareerSearch http://career.uga.edu/resources/online_resources (Research employers by location and/or industry)
DAWGlink www.career.uga.edu/ (login with your UGA MyID and password)
GoinGlobal (To access GoinGlobal, login to your DAWGlink account)
Idealist www.idealist.org/ (nonprofit jobs)
USAJobs www.usajobs.gov/ (federal jobs)

MAJOR/CAREER SPECIFIC:
Engineering Jobs- http://www.engineeringjobs.net/
Think Jobs-Engineering Jobs- http://www.thinkjobs.com
Agricultural Engineering Positions-http://agcareers.com
Civil Engineering Central- http://www.civilengineeringcentral.com/
Environmental Job Board-http://www.ecojobs.com

Professional Information Resources

American Academy of Environmental Engineers-http://www.aaees.org/
American Institute of Chemical Engineers-http://www.aiche.org/
American Society of Agricultural and Biological Engineers-http://www.asabe.org/
American Society of Civil Engineers-http://www.asce.org
American Society of Mechanical Engineers-http://www.asme.org/
American Society of Naval Engineers- https://www.navalengineers.org
American Society of Safety Engineers-http://www.asse.org/
Association for Computing Machinery- http://www.acm.org/
Biomedical Engineering Society-http://www.bmes.org
Institute of Biological Engineering- http://www.ibe.org/
Institute of Electrical and Electronics Engineers-http://www.ieee.org/portal/site
Institute of Industrial Engineers- http://www.iienet2.org/
Institute of Transportation Engineers- http://www.ite.org/
National Academy of Forensic Engineers- http://www.nafe.org/
National Society of Black Engineers- http://www.nsbe.org/
Society of American Military Engineers- http://www.same.org/
Society of Automotive Engineers- http://www.sae.org/
Society of Hispanic Professional Engineers- http://www.shpe.org/
Society of Manufacturing Engineers- http://www.sme.org/
Society of Naval Architects and Marine Engineers- http://www.sname.org/Home/
Society of Petroleum Engineers- http://www.spe.org/unitedstates/
Society of Women Engineers-http://societyofwomenengineers.swe.org/
Tip: Join LinkedIn groups that are related to your career interest. Need help finding groups? Check out the Groups You May Like link under the Interests/Groups tab. Review the groups that professionals in your field of interest have joined and consider joining them as well.

**Additional Career Consultant Recommendations:**

**UGA Engineering Degrees**

**Agricultural** is the engineering discipline that applies engineering science and technology to agricultural production and processing. This degree is a General Engineering degree program and students have alternatives in computer systems engineering, electrical/electronic systems, engineering physics, mechanical systems, natural resource management, process operations and structural systems.

**Biochemical** is a branch of chemical engineering or biological engineering that mainly deals with the design and construction of unit processes that involve biological organisms or molecule. Biochemical engineers act on teams with biologists and chemists to take laboratory processes and ramp them up into large-scale manufacturing. In fact, they are integral to a variety of manufacturing industries, such as food manufacturing and agro-technology.

**Biological** is the application of concepts and methods of biology (and secondarily of physics, chemistry, mathematics, and computer science) to solve real-world problems related to the life sciences. Biological engineering uses primarily the rapidly developing body of knowledge known as molecular biology to study and advance applications of living organisms.

**Civil** is the engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works like roads, bridges, canals, dams, and buildings. Civil engineering takes place on all levels: in the public sector from municipal through to national governments, and in the private sector from individual homeowners through to international companies.

**Computer Systems** is the engineering discipline that integrates several fields of electrical engineering and computer science required to develop computer hardware and software. Computer engineers are involved in many hardware and software aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers, to circuit design.

**Electrical and Electronics** is the engineering discipline that generally deals with the study and application of electricity, electronics, and electromagnetism. Electrical engineering is considered to deal with the problems associated with systems such as electric power transmission and electrical machines, whereas electronic engineering deals with the study of electronic systems including computers, communication systems, integrated circuits, and radar.

**Environmental** is the integration of science and engineering principles to improve the natural environment (air, water, and/or land resources), to provide healthy water, air, and land for human habitation (house or home) and for other organisms, and to remediate pollution sites. It involves waste water management and air pollution control, recycling, waste disposal, radiation protection, industrial hygiene, environmental sustainability, and public health issues as well as a knowledge of environmental engineering law. It also includes studies on the environmental impact of proposed construction projects.

**Mechanical** is the engineering discipline that applies the principles of physics and materials science for analysis, design, manufacturing, and maintenance of mechanical systems. It is the branch of engineering that involves the production and usage of heat and mechanical power for the design, production, and operation of machines and tools.