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 Computer Systems 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. The computer systems engineering discipline 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.

**Researching Job Titles and Careers**

- **O*NET** [http://online.onetcenter.org](http://online.onetcenter.org) (click on Find Occupations)
- **Occupational Outlook Handbook** [http://www.bls.gov/oco](http://www.bls.gov/oco) (type in general term for career of interest)
- **Georgia Career Information Center** [http://www.ggc.peachnet.edu](http://www.ggc.peachnet.edu) (accessible only on campus computers)
- **Career Insider: Vault Guides** [http://career.uga.edu/resources/online_resources](http://career.uga.edu/resources/online_resources) (Under the “Resources” tab and select “Online Resources”)
- **Candid Career** [http://career.uga.edu/resources/online_resources](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>Analyst</th>
<th>Fleet Engineer</th>
<th>Project Manager</th>
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<tbody>
<tr>
<td>Application Engineer</td>
<td>Food Engineer</td>
<td>QC Lab Technician</td>
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<tr>
<td>Assistant Project Manager</td>
<td>Illuminating Engineer</td>
<td>Quality Engineer</td>
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<tr>
<td>Associate Planner</td>
<td>Manufacturing Engineer</td>
<td>Research Engineer</td>
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<tr>
<td>Biomedical Engineer</td>
<td>Mechanical Engineer</td>
<td>Sales Engineer</td>
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<tr>
<td>Civil Engineer</td>
<td>Molding Analysis Engineer</td>
<td>Service Manager</td>
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<tr>
<td>Conservation Engineer</td>
<td>Node Specialist</td>
<td>Software Engineer</td>
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<tr>
<td>Controls Engineer</td>
<td>Packaging Engineer</td>
<td>Systems Engineer</td>
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<tr>
<td>Cooperative Manufacturing Engineer</td>
<td>Pharmaceutical Engineer</td>
<td>Task Engineer</td>
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<tr>
<td>Design Engineer</td>
<td>Plant Process Engineer</td>
<td>Test Engineer</td>
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<tr>
<td>Distribution Engineer</td>
<td>Principal Engineer</td>
<td>Trust Designer</td>
</tr>
<tr>
<td>Electrical Engineer</td>
<td>Process Engineer</td>
<td>Water and Wastewater Project Engineer</td>
</tr>
<tr>
<td>Energy Engineer</td>
<td>Product Application Engineer</td>
<td></td>
</tr>
<tr>
<td>Environmental Engineer</td>
<td>Project Engineer</td>
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</tr>
</tbody>
</table>

**Possible Employers**

| Ashland, Inc. | Dynamco | Lummus |
| Baldor Electric Company | EcoMetrix Environmental Mgmt | Manhattan Associates |
| Bechtel | EMC Corporation | Merck & Company |
| Bell South Communications | EnSafe | Michelin Tire Company |
| Brock Design Group | FAA | Milliken Industries |
| Burns and McDonnell | Food Machinery Service | NRG Vision |
| Carrier Transicold | Fowler Products | Pennington Seed |
| Carter & Sloope, Inc. | Georgia Power Company | Pierson Land Surveyors |
| Case New Holland | Graco Children’s Products, Inc. | Proctor & Gamble |
| Caterpillar, Inc. | John Deere | Raytheon |
| City of Gainesville | Jordan, Jones, & Goulding | Reliance Electric |
| Cobb County Department of Transportation | Kelly Manufacturing | River Construction |
| ConAgra, Inc. | Load Star | Robins Air Force Base |
| Cryolife, Inc. | Logic Technologies | Rockwell Automation |
| | Lowe Engineers, Inc. | Savannah River Nuclear Solutions |
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 LinkedIn 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.idealista.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-http://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.ibs.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://wwwSAME.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/
Additional Career Consultant Recommendations:

Preparing Early for the Job Market: Tips for Getting a Jumpstart on your Career

There are many things that you can do throughout college to help prepare you for the professional world. Below are a few tips to get you started.

Staying Professional throughout Your College Career:

- Carefully choose your e-mail address. You will use your e-mail to communicate with many people throughout your college career—friends, professors, advisors, potential employers, and more. It is important to have an e-mail address appropriate for all situations.
- Have at least one suit. There may be times in your college career where professional business attire will be required, such as job interviews, career fairs, and class presentations.
- Gain practical experience inside the classroom. Courses that offer tips in résumé writing and interviewing skills will help you tremendously when beginning the job search or graduate admissions processes.
- Look for possible work experience and/or internship opportunities. This can be one of the best ways to gain work experience before you graduate and enter the field.
- Find a balance in extracurricular activities. Activities outside the classroom can offer students a variety of options for participation; from volunteer organizations and Greek life to athletics, clubs, and professional organizations, students can meet new people and become involved on campus.
- Meet with your advisor regularly. Even if you have a specific reason for meeting, it is important to develop a relationship with your advisor. He or she can help you decide which courses and career paths are right for you.

Tips for Beginning the Job Search and Interviewing Process:

- Always have your résumé up to date. Even if you’re not actively searching for a job yet, you never know when an unexpected opportunity may arise.
- Start to build a portfolio of your work. Whether you have examples of classroom projects, samples of work from an internship or co-op, or an assortment of both, many prospective employers like to see the type experience that you’ve had and the quality of work you can do.
- Get letters of recommendation before you graduate. If graduate school is a possibility for your future or you feel that a recommendation from a faculty member could increase your chances of getting a job, try to get a letter of recommendation before you graduate. Some schools will even keep them on file for you for future use.
- Use the career service centers that are available on campus. Career centers offer services such as career advising, practice interviews, résumé critiques, and much more.
- Attend job fairs. Many colleges and universities offer job fairs that bring representatives from businesses and organizations across the United States. Job fairs can be a great place to make new contacts and talk to others who work in your field.
- Make the most of alumni/faculty contacts. Sometimes the best way to get your foot in the door is through people you know. Some schools even provide graduates with an alumni network to help them get started in their careers.
- Take the time to really look at the jobs or graduate programs to which you are applying. Avoid blindly applying to jobs and programs without knowledge of the company or school—you don’t want to be caught off guard if the employer or school representative calls you to discuss a position or program. Being able to ask questions and engage in a discussion will increase your marketability.

*Taken from http://www.collegeview.com/articles/article/preparing-early-for-the-job-market