Careers

- Electrical Engineering:
  - Electrical Engineer
  - Electrical Field Engineer
  - Electronics Engineer (non-computer)
  - Instrumentation Engineer
  - Meter Engineer
  - Plasma Engineer
  - Product Manager
  - Radar Engineer

- Industrial & Systems Engineering:
  - Industrial Engineer
  - Information Engineer
  - Product Manager
  - Systems Engineer
  - Test Engineer

- Computer Engineering:
  - Algorithm Software Engineer
  - Capacity Planner
  - Computer Engineer
  - Computer Hardware Engineer
  - Fiber-optic Designer
  - Network Engineer
  - Network Specialist

- Mechanical Engineering:
  - CAD Drafter/Designer
  - Energy Conservation Engineer
  - Equipment Engineer
  - Manufacturing Engineer
  - Mechanical Engineer
  - Robotics Engineer
  - Thermal Design Engineer

Strategies for Success

- Prepare for extensive coursework rooted in advanced mathematics. Furthermore, review the course catalog to get an overview of the nature of respective courses in your Degree Completion Plan.

- Adhere to Liberty University School of Engineering program's specific computer requirements for each student the department.

- Considering the extensive impact of engineering in today's society, it may be helpful to identify personal area(s) of interest that may lead to a future field specialization. This is not to say that an open mind isn’t equally beneficial—in terms of promoting new and creative ideas that help engineers innovate.

- Good engineers are also good programmers, so becoming familiar with programming functioning and languages (i.e., C, C++, Java, Ruby, Python, CSS, HTML, PHP, Perl, etc.) will make you more versatile in your field. Developing proficiency in algorithms and data structure is beneficial.

- Beyond acquiring technical acumen, gain collaborative experience in order to prepare for the professional demands of engineering.

- Engage in special projects outside of the classroom that allow optimal hands-on exposure to engineering concepts that will be valuable to your professional development.

- To be competitive, consider developing an online tech portfolio that provides a visual for any designs that are produced throughout your undergraduate career. This is a great opportunity to show what you’ve done.

- Connect with senior engineers in the department and the field to encourage a system of advocacy. Drawing insights from these individuals are a great way to enhance your identity as a developing professional.

Engineering

$53,400 per year

Statistics:
1) Forbes
2) Forbes
3) CNet
4) National Association of Colleges and Employers
Associations

Institute of Electrical and Electronics Engineers  www.IEEE.org
The American Society of Safety Engineers  www.ASSE.org
Board of Certified Safety Professionals  www.BCSP.org
American Society for Engineering Education  www.ASEE.org
Association for Computing Machinery  www.ACM.org

Holland Codes

The Holland Code system is designed to connect individuals with the career field that best fits their personality. The system scores the test taker on six separate scales: Realistic (R), Investigative (I), Artistic (A), Social (S), Enterprising (E), and Conventional (C). The two or three highest scores represent an individual’s strongest attributes. Here are a few examples of positions associated with this major:

- Electrical Engineer (RIE)
- Mechanical Engineer (RIC)
- Industrial Designer (AES)
- Industrial Engineer (EIR)
- Computer & Information Systems Manager (EIC)
- Mechatronics Engineer (IRC)

The FOCUS 2 Career Assessment utilizes these Holland Codes and is a free resource to Liberty students. Assessment results are matched to career options and majors offered at Liberty. To access this free resource visit www.Liberty.edu/Focus2.

Resources

On-Campus and Local Resources

- Access the Christian Service Web page to see where other students have served in organizations and areas relevant to your field.
- Connect with one of the many Engineering clubs: Cyber Defense Club, National Society of Black Engineers, Society of Women Engineers, Strategic Intelligence Society.

Online Resources

Visit the website of the following organizations:
- Accreditation Board for Engineering and Technology (ABET)
- National Society of Professional Engineers
- TryEngineering.org
- CareerCornerstone.org
- American Society for Engineering Education (ASEE)
- Learning to Program: list of resources
- The Washington Fellowship

Consider spending a semester doing an internship with The Washington Fellowship. Potential locations include the following: Booz Allen Hamilton, Lockheed Martin, Northrop Grumman, BEA Systems, and IntelSat, among others. To learn more visit: www.Liberty.edu/Washington.

Sample Résumés

For a variety of sample résumés visit the Liberty University Career Center.