

From a computer help desk technician to test engineer, the path to tomorrow's hot career opportunities in electronics begins at DeVry.

Technology has clearly changed the way we work, the way we play... nearly everything we do and how we do it. Quite simply, the power of electronics and computer-based technologies has updated the way the world works in ways unimaginable just a few years ago. And advances in technology will continue to bring about progress that will propel our lives forward.

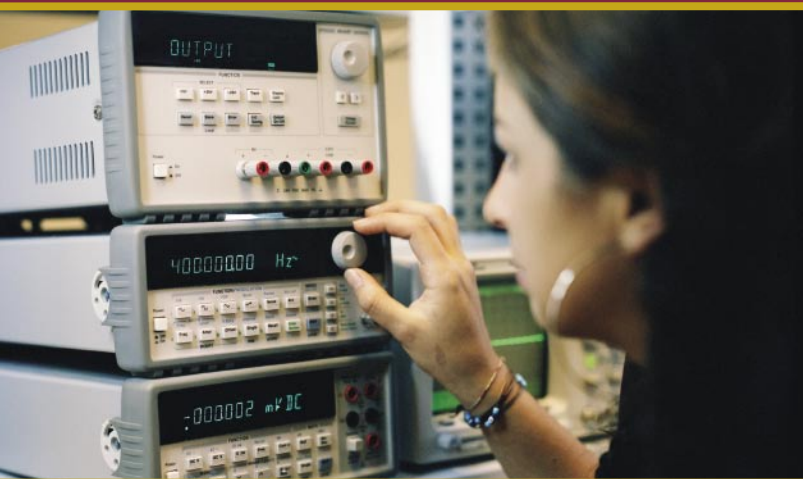
If you've been thinking about a career in electronics, consider this: major employment opportunities are out there in the research, manufacturing, medical, communications, security and consumer products arenas.

According to the U.S. Bureau of Labor Statistics, career opportunities for electronics experts are projected to skyrocket through 2014. Consider these growth rates:

- Computer Software Engineers, Applications: 48%
- Computer Software Engineers, Systems Software: 43%
- Network and Computer Systems Administrators: 38%
- Database Administrators: 38%
- Computer Systems Analysts: 31%
- Biomedical Engineers: 31%

To prepare yourself for the growing opportunities in electronics, you'll need the right combination of knowledge and practical know-how. DeVry can help you develop the educational foundation you need to enter or advance in this field.

Career opportunities in electronics are abundant and at all levels for those with the right qualifications.



Jump on one of these hot career opportunities in electronics.

Electronics and Computer Systems Technicians concentrate on the hands-on aspects of computer electronics. Also known as computer security, onsite support, customer service, help desk support, quality control or engineering technicians, these professionals have responsibilities that include:

- Installing, maintaining and upgrading security systems.
- Inspecting products and processes, conducting tests and/or collecting data.
- Building or setting up equipment and preparing and conducting tests.
- Making prototype versions of new equipment designs.

Biomedical Engineering Technologists, working with physicians, therapists and technicians, use cutting-edge engineering principles to analyze and facilitate biological and medical technology advances to enhance today's healthcare practice. These experts are also known as biomedical engineers, biomedical product development engineers and biomedical equipment technicians. Professional responsibilities include designing, constructing, implementing and maintaining:

- Artificial devices that replace or support body functions, such as pacemakers, prosthetic devices and artificial organs.
- Therapeutic products, such as healthcare-related lasers, and systems that perform critical functions such as tissue fusion, insulin delivery and muscle repair.
- Sensors for various patient-monitoring devices and bioelectric and telemetry equipment.
- Medical imaging instrumentation such as magnetic resonance and X-ray tools.

Computer Engineering Technologists – also called test engineers or engineering, quality control and R&D technologists – help research, design, develop and test computer-based hardware, while focusing on software needed for product development. Professional responsibilities include:

- Testing, monitoring and maintaining a variety of advanced electronic products and industrial equipment.
- Working with senior engineers and technicians to design, test and troubleshoot new technologies.
- Developing new chips, semi-conductor fabrications and electronic Internet applications.

Electronics Engineering Technologists research, design and test computer-based hardware as well as supervise its manufacture and/or installation. Also known as test engineers or engineering, quality control and R&D technologists, these experts are responsible for:

- Testing, monitoring and maintaining a variety of advanced electronic products and industrial equipment.
- Working with senior engineers and technicians to design, test and troubleshoot new technologies.
- Developing new chips, semi-conductor fabrications and electronic Internet applications.

Security Engineering Technologists – also known as security engineers, specialists or consultants – are highly skilled and valued members of the work force who design, develop and implement critical facility security systems and procedures. Professional responsibilities include:

- Conducting physical site surveys to determine security requirements.
- Designing hardware and software for computer and physical security systems.
- Implementing and troubleshooting technical security systems and issues.
- Training and supervising others in physical security systems and use.

Start your career with an education that lays the groundwork for success.

The right education can help turn your interest in electronics into a career with a future. An associate degree generally qualifies individuals for entry-level electronics positions. While experience and certifications are considered valuable in the field, a bachelor's degree is needed for advancement to administrative or decision-making positions. To progress even further, many professionals pursue master's degrees in electronics, technology or business.

Start your career with a solid foundation of knowledge and on-the-job experience that allows you to:

- Communicate effectively with both technical and non-technical staff.
- Prioritize work and manage multiple projects.
- Continually update your skills and broaden your knowledge and experience.

DeVry is as focused on your career as you are.

We're committed to helping you build the knowledge base you need to enter and advance in the career of your dreams. To achieve this, our degree programs integrate technical coursework and general education. We offer several educational paths that prepare graduates for successful careers in the booming field of electronics.

Bachelor's Degree Programs

Biomedical Engineering Technology – 9 Semesters

This program focuses on designing and implementing medical products and systems, addressing biomedical application of engineering technology to create biosensors, physiological and biomedical instruments, imaging technology and telemedicine advances. Program-specific coursework includes:

- Biology, human anatomy and physiology, physics, electronic circuits, signal processing, digital logic circuits, programming languages, network engineering and industrial process controls.

Learn more at www.devry.edu/programs/biomedical_engineering_technology/about.jsp

Computer Engineering Technology – 9 Semesters

This program spotlights design and implementation of software and firmware solutions for microprocessor-based hardware and computer network components. Graduates are prepared to apply knowledge of advanced software methods in areas such as embedded systems, distributed computing, data warehousing and mining, computer networking and Web applications. Program-specific coursework includes:

- Electronic circuits and systems, digital and microprocessor systems, computer programming, computer networks and software design.

Details are available at www.devry.edu/programs/computer_engineering_technology/about.jsp

Electronics Engineering Technology – 9 Semesters

This program emphasizes hardware and software aspects of engineering, including wireless communications systems, telecommunications devices and networks, automated manufacturing, electronic and biomedical instrumentation, and electronics devices and systems. Program-specific coursework includes:

- Electronic circuits and systems, analog signal processing, digital and microprocessor systems, computer programming, computer networks, electronic communications and controls.

The program also offers several technical specialties: communications, control systems, digital signal processing, embedded system design, networks and security systems.

Learn more at www.devry.edu/programs/electronics_engineering_technology/about.jsp

Associate Degree Program

Electronics and Computer Technology – 5 Semesters

This program addresses technical problem solving in a wide variety of areas. Program-specific coursework includes:

- Electrical and electronic circuits and systems, digital microprocessor and computer systems, computer applications for business and networking applications.

Read more at www.devry.edu/programs/electronics_and_computer_technology/about.jsp

DeVry's Career Advantage.

Classes are small; hands on. Get the individual attention you want and learn the critical skills you need in a hands-on environment that is uniquely student-focused.

Accelerated schedule: 4 years in 3. Onsite/online flexibility. Taking classes onsite or online offers the flexibility you need to fit your busy schedule. Our year-round schedule lets you graduate sooner.

Real-world faculty: real-world curriculum. Gain knowledge from successful professionals who use curriculum responsive to industry needs and who will provide you with relevant insights.

Education that's affordable. Invest in your future. We'll help you apply for the funds needed to make college more affordable.

Employment results: 90%*. Earn a degree that is recognized by leading employers to get the interviews you need to start your career.

Reputable accreditation/degrees employers value. Earn an associate, bachelor's or master's degree from a university that's accredited like other top schools to get started on the path to a successful career.

*Since 1975, 90.1% of DeVry graduates system-wide in the active job market held positions in their fields of study within 6 months of graduation.

DeVry University is accredited by The Higher Learning Commission of the North Central Association, www.ncahlc.org.

DeVry University operates as DeVry College of New York in New York and DeVry Institute of Technology in Calgary, Alberta.

Resources

Make an educated decision about your career. You'll find valuable information at:

www.abet.org

Accreditation Board for Engineering Technology

www.asee.org

American Society for Engineering Education

www.itaa.org

Information Technology Association of America

www.aaes.org

American Association of Engineering Societies

www.ieee.org

Institute of Electrical and Electronics Engineers

www.asisonline.org

American Society for Industrial Security

www.htcia.org

International High Technology Crime Investigation Association

www.sia.org

Satellite Industry Association

www.eta-i.org

Electronics Technicians Association

www.bls.gov

Bureau of Labor Statistics

www.salary.com

Salary Information

Web sites current at time of publication.

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