

Healthcare Technology

From biomedical engineer to medical records manager, the path to tomorrow's hot career opportunities in healthcare technology begins at DeVry.

You no longer need a medical or nursing degree to enjoy a successful career in the healthcare industry. Career opportunities in this burgeoning field cater to professionals with a wide variety of skills and interests, though one common thread exists among these experts: healthcare workers care about people.

- If bioengineering fascinates you, join the clinical development team, spearheading important work in areas such as organ transplants, minimally invasive surgical techniques, skin grafting, gene therapies and artificial organs and limbs.
- If you're a good organizer, apply your skills toward managing complex health data and health information systems, overseeing privacy and security regulations and helping to assure quality.
- If you're business-oriented, use your expertise to manage group practices or other healthcare organizations, supervise people and oversee regulatory processes and help keep costs under control.

These and other related opportunities have helped make healthcare the largest and one of the fastest growing industries in the country. According to the Bureau of Labor Statistics:

- Eight out of 20 occupations projected to grow the fastest are in healthcare.
- Healthcare provided 13.5 million jobs in 2004.
- More new healthcare jobs – about 19%, or 3.6 million – are projected to be created between 2004 and 2014.

Healthcare professionals enjoy the advantage of working in diverse environments:

- Hospitals
- Insurance companies
- Private medical offices
- Pharmaceutical companies
- Medical laboratories
- Universities
- Long-term-care facilities
- Managed-care facilities
- Nursing & retirement homes

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

So how can you turn the growing healthcare field into a major career move?

Get what it takes to get into the game. That means gaining the right combination of knowledge and practical skills needed to succeed in your chosen healthcare specialty. DeVry can help you develop the educational foundation you need to succeed in whatever area of healthcare technology you choose to specialize.



Jump on one of these hot career opportunities in healthcare technology.

Health Information Technicians, clinical coding specialists, data quality managers, medical records supervisors, insurance claims analysts and release of information coordinators all work directly with health records, applications systems and health information databases. Professional responsibilities include:

- Helping collect, prepare, maintain, analyze and store medical record data generated and used by doctors, nurses, insurance companies and other healthcare professionals.
- Working with physicians to ensure accurate documentation of patient information, and correctly coding diagnoses and procedures.
- Monitoring coding processes for accuracy and compliance with government regulations.
- Coordinating release of private health information to authorized external sources.

Health Information Managers or Medical Records Managers supervise those who work directly with health records and applications systems. These professionals are charged with responsibility for regulatory compliance and patient information security and are increasingly involved as project managers in the transition from paper to electronic record systems. Professional responsibilities include:

- Developing and maintaining effective electronic input, storage and retrieval systems.
- Managing the collection, preparation, maintenance, analysis and storage of medical record data.
- Monitoring and training staff to ensure accuracy and compliance with government regulations.

Health Services Managers, often referred to as healthcare administrators or medical business managers, are experts charged with filling a critical niche in the patient care process. In this role, they must remain current on issues and changes impacting healthcare systems, complex government regulations and preventive care initiatives. Professional responsibilities include:

- Handling business affairs and strategies impacting reimbursement and marketing.
- Budget, equipment and human resource planning.
- Organizing patient flow.
- Supervising and hiring nonmedical staff.

Biomedical Engineering Technologists work with physicians, therapists and technicians to use cutting-edge engineering principles to analyze and facilitate biological and medical technology advances to enhance today's healthcare. 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.

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

The right education can help turn your interest in healthcare into a high-tech career with a future. An associate degree is considered the minimum level of education required for entry-level positions in the health information technology field, while a bachelor's degree is essential for higher-level positions. To advance even further, many healthcare professionals pursue postgraduate degrees in medicine, nursing, healthcare, technology or business administration.

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 growing field of healthcare technology.

Bachelor's Degree Programs

Biomedical Engineering Technology – 9 Semesters

This program focuses on design and implementation of 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.

Find details at www.devry.edu/programs/biomedical_engineering_technology/about.jsp

Business Administration with Health Services Management Major/Concentration – 8 Semesters

This unique offering combines basic management principles with computer and business know-how to provide graduates with the skills needed to effectively manage healthcare organizations, negotiate with insurance providers, budget medical facility resources and coordinate patient billing. In addition to completing a solid core of foundational coursework in business, accounting, project management, economics and computer systems, students pursuing the health services management option complete coursework including:

- Health services systems; health rights and responsibilities; management of healthcare technology; healthcare finance, policy and economics; health insurance and managed care; and planning and marketing for health service organizations.

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

Technical Management with Health Information Management Specialty – 8 Semesters

This bachelor's degree completion program helps students who already hold an associate degree in health information technology to broaden their knowledge and add management capabilities to their resumé. In addition to completing a solid core of foundational coursework in business, management and technology, students pursuing the health information management specialty complete coursework including:

- Advanced classification systems, healthcare statistics and research, data security and privacy, health information financial management, and management of health information functions and services.

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

Associate Degree Program

Health Information Technology – 4 Semesters

This program prepares graduates to effectively work with and navigate applications systems and health information databases, as well as paper-based and electronic health records. Graduates are also prepared to successfully use standard health information coding systems. Program-specific coursework addresses:

- Foundations in biology and medical terminology: clinical classification systems, health data analysis, legal issues and principles of quality assurance.

Learn more at www.devry.edu/programs/health_information_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.aahc.net

American Association of Healthcare Consultants

www.aha.org

American Hospital Association

www.healthinformationcareers.com

American Health Information Management Association

www.bmes.org

Biomedical Engineering Society

www.cahiim.org

Commission on Accreditation for Health Informatics and Information Management Education

www.itaa.org

Information Technology Association of America

www.namss.org

National Association Medical Staff Services

www.nihcm.org

National Institute for Health Care Management

www.siia.net

Software & Information Industry Association

www.bls.gov

Bureau of Labor Statistics

www.salary.com

Salary Information

Web sites current at time of publication.

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