Master of Science in Biomedical and Health Informatics

Thinking beyond the possible

Manage, analyze and interpret data to reshape the way we think about health care.

SCHOOL OF MEDICINE
CASE WESTERN RESERVE UNIVERSITY
Big data is driving the next evolution of health care. **The need has never been greater for professionals who can manage, integrate, analyze, and interpret that data to make recommendations that accelerate research, improve clinical care, and shape public policy.** Yet demand in the job sector is outpacing supply.

That’s where Case Western Reserve University (CWRU) School of Medicine is stepping in. We’ve developed an innovative, cutting-edge master’s program in Biomedical & Health Informatics to train students who want to have a positive impact, change people’s lives, and reshape the way we think about healthcare at a mass scale.

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The duration of our program is flexible so you can pursue your degree on a schedule that works for you, with 11-months, 1.5-year or part-time study options.

You’ll have the chance to choose a course from each of our three focus areas to tailor your degree to your needs and aspirations. Additionally, you’ll have the option to choose one of these areas as an area to focus your studies on. With your exposure to these focuses, you’ll gain the skills and experience you need to kickstart your career.

- In our **Biomedical and Health** focus, you will be trained to characterize the information needs of health professionals and researchers, lead or participate in the development and use of Electronic Health Record systems, and understand and apply epidemiology study methods for population health and clinical research.
- In our **Computation and System Design** focus, you will gain experience developing, implementing, and improving informatics systems. You’ll learn to implement software engineering techniques on informatics projects and apply database management systems fundamentals.
- In our **Data Analytics** focus, you will see first-hand how to use data analysis techniques, biostatistics, probabilistic and stochastic processes, and software-based techniques to solve biomedical data challenges.
Many paths, many outcomes

We know there is no one direct journey to career success in this field. Students in our program come from all kinds of academic backgrounds—from computer and data science to biology, pre-health and health sciences, business management, math/statistics and so much more. And their career outcomes are just as varied as their academic backgrounds.

During your program, we’ll support your career discovery by connecting you with hands-on internships, research-intensive coursework, and collaborative team environments. We work closely with nationally ranked health systems, medical providers, and industry partners to make sure your education is both theoretical and practical. You’ll learn from practitioners in the field to gain the professional experience and leadership skills you’ll need to forge a path of transformative impact throughout your career.

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A career field of endless possibilities

Our interdisciplinary education and innovative approach to studying Biomedical & Health Informatics ensures you’ll be ready for wherever this evolving career field takes you. You’ll have the opportunity to craft a unique plan of study with faculty from our School of Medicine, Weatherhead School of Management, and Case School of Engineering. This tailored plan of study will complement the program’s core competencies.

10-15 students in the program per year, which means you’ll get lots of individual attention.

Nationally ranked health systems, medical providers and health departments are typical internship partners, including: Cleveland Clinic, MetroHealth Medical Center, University Hospitals, Louis Stokes Veteran Affairs Medical Center, Cleveland Institute for Computational Biology, Local Health Departments.
About Cleveland

Fewer than 5 miles from Case Western Reserve’s campus is Cleveland’s bustling downtown, complete with the Rock and Roll Hall of Fame, renowned restaurants, major league teams, and Playhouse Square, the nation’s No. 1 arts district, according to USA Today. Nearby, there’s also Lake Erie and access to a 24,000-acre public park system.

Case Western Reserve University School of Medicine is affiliated with Cleveland Clinic, Louis Stokes VA Medical Center, University Hospitals and MetroHealth Medical Center (a county hospital). The first three are within walking distance, while MetroHealth is just a 15-minute drive. The school ranked No. 22 in annual National Institutes of Health funding in 2020 by Blue Ridge Institute for Medical Research.
Graduates from our program go on to reshape healthcare and improve patient experiences through roles as data scientists, data analysts, data programmers, project managers, medical information officers, and so much more. We prepare our graduates by working with practitioners in the field to make sure our students have career experiences that prepare them for job demands now and well into the future.

How to Apply
Complete your application online at applygrad.case.edu/apply.

Include required materials:
- School-issued unofficial transcripts, scanned and uploaded for all colleges or universities attended.
- Resume/CV
- Letters of Recommendation (3)
- Statement of Purpose
- Application Fee ($50)
- For international applicants: If you are not a citizen of an English-speaking country, or if your previous college or university program was not taught in English, please submit an English proficiency exam (IELTS, TOEFL, or PTE).

Request more information
Need to know more about course offerings, faculty members or something else? Fill out a request form at applygrad.case.edu/register/med-info.

Reach out directly
Have specific questions? Contact us at informatics@case.edu.