PhD in Biomedical and Health Informatics

Our Biomedical and Health Informatics program equips students with a robust foundation in data analysis, informatics, and population health. The core curriculum encompasses essential courses such as data structures, statistical methods, epidemiology, and more. Graduates emerge primed to excel in academia, research institutions, healthcare organizations, and industry, equipped to pioneer innovative solutions that bridge cutting-edge technology with healthcare delivery and advance the landscape of biomedicine and health informatics.

Course Examples

- HSMC 432: Introduction to Health Informatics
- PQHS 416: Computing in Biomedical and Health Informatics
- PQHS 431: Statistical Methods I
- PQHS 432: Statistical Methods II
- PQHS 490: Epidemiology: Introduction to Theory and Methods
- EBME 410: Medical Imaging Fundamentals
- MPH 406: History and Philosophy of Public Health
- PQHS 440: Introduction to Population Health
- CSDS 433: Database Systems
- PQHS 416: Computing in Biomedical and Health Informatics
- PQHS 444: Communicating in Population Health Sciences
- PQHS 445: Research Ethics in Population Health Sciences
- PQHS 413: Introduction to Data Structures and Algorithms in Python
- PQHS 471: Machine Learning & Data Mining

#1
medical school in Ohio

#25
medical school for research

#16
worldwide for biomedical and health sciences

#20
in R&D federal spending

U.S. News & World Report
Your Path to a PhD

Immerse yourself in a rich educational experience, beginning with a required common core curriculum that introduces you to key domains such as data structures, statistical methods, and epidemiology. From delving into medical imaging fundamentals to mastering bioinformatics, you'll explore diverse aspects of the Biomedical and Health domains.

Equipped with a deep understanding of informatics and population health, you'll be poised to drive innovation, bridge technology and healthcare, and pioneer solutions that transform the future of biomedicine and health informatics.

CWRU Invests in You

- 100% fully-funded tuition
- 100% mandatory fees and health insurance paid
- $37,000 annual stipend to PhD students
- $2,000 moving stipend

Admissions Timeline and Core Application Requirements

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<th>Admissions Cycle</th>
<th>Time</th>
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<td>BHI Application Opens</td>
<td>September</td>
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<tr>
<td>Funding Consideration Deadline</td>
<td>December 15</td>
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<td>Final Application Deadline</td>
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<td>Virtual Interviews</td>
<td>November - March</td>
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<td>Decisions Made</td>
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<td>Admitted Student Events</td>
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<td>August</td>
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Core Application Requirements

- Unofficial transcripts
- Current Resume/CV
- Three letters of recommendation
- Statement of Purpose

For details, visit
https://case.edu/medicine/pqhs/education/biomedical-health-informatics

Ready to learn more?
Reach out to our admissions team at informatics@case.edu or QR code to request more info.