

## Biomedical Informatics Graduate Program at Stony Brook University (The State University of New York at Stony Brook)

Stony Brook University, the flagship State University of New York, is a member of the prestigious Association of American Universities (AAU) and co-manager of the nearby Brookhaven National Laboratory (BNL). It is located on Long Island, close to beaches and New York City.

Biomedical Informatics (BMI) is an interdisciplinary field that investigates and explores the effective use of biomedical data, information and knowledge for scientific inquiry, problem-solving and decision-making, driven by efforts to improve human health. Stony Brook embeds BMI's computer engineering and applied sciences education in research and operations at a major medical center, where quantitative sciences have emerged at the very core of efforts to understand, prevent and treat diseases. The department is also part of the AI Institute and the Institute for Engineering-Driven Medicine at Stony Brook University.

The Department of Biomedical Informatics is dually housed in the School of Medicine and in the College of Engineering and Applied Sciences. Our students can access resources from both schools. BMI faculty conducts cutting-edge interdisciplinary research in Data Science, Imaging Informatics, Systems Biology, Computational Biology and Bioinformatics, Clinical Informatics, Computational Science, Population Health, AI in Healthcare and Visualization. Graduates can expect careers in academia, research institutions, hospitals, industry and government. Students also have opportunity for summer internships in major companies around New York City.

For graduate programs, we offer Ph.D. degrees, M.S. degrees and Advanced Graduate Certificates in three tracks:

• **Clinical Informatics:** Enhancing the quality and efficiency of clinical workflows

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- o Imaging Informatics: Integrative analysis and management of biomedical images
- **Translational Bioinformatics**: Application of informatics methods to advance patient-related biomedical research, from clinical genomics to population health

The application deadlines for Fall 2022 are February 20, 2022 for the Ph.D. program, and March 1, 2022 for the M.S. program and the Advanced Graduate Certificate program.

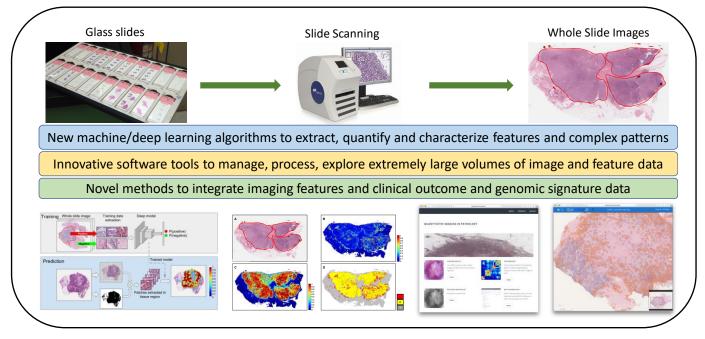
To apply, please go to: https://bmi.stonybrookmedicine.edu/education/prospective\_students The admission and degree requirements are detailed in the Stony Brook Graduate Bulletin. You can reach us at: (631) 638-2590 or <u>BMIGradEd@stonybrookmedicine.edu</u> or <u>richard.Moffitt@stonybrookmedicine.edu</u>

Our website: https://bmi.stonybrookmedicine.edu

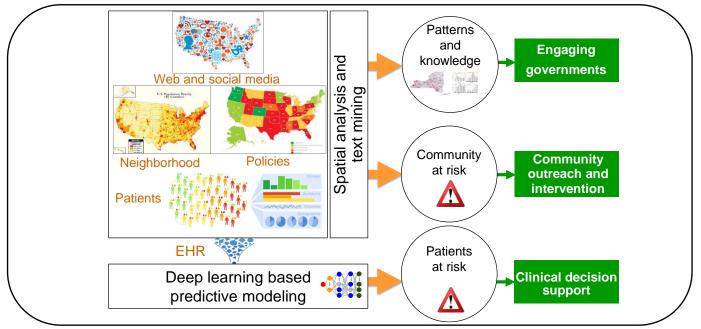


## **Example Research Projects**

From Glass Slides to Big Data to Knowledge



## Big Data and AI Driven Opioid Epidemic Research



## Radiomics and Radiogenomics for Precision Oncology

