

BIOMEDICAL INFORMATICS

Program Overview

Queen's School of Computing (QSC) and the Department of Biomedical and Molecular Sciences (DBMS), Queen's University, have developed the Graduate Diploma and professional Master's programs in Biomedical Informatics. The programs train future data scientists who can translate data into knowledge that may transform how health care is approached and delivered. The programs are aimed at students with training in biology, life sciences, biochemistry, medical sciences, computer science, biostatistics, engineering, and related disciplines, who are interested in designing and implementing quantitative and computational methods that solve challenging problems across the entire spectrum of biology and medicine, and who wish to develop the skills required for a range of exciting careers in medicine, research and development, or industry.

The focus of these programs is on the application of existing tools and techniques for managing and analysing biomedical data.

Admission Requirements

To be considered for admission to the Graduate Diploma in Biomedical Informatics and Professional Master's in Biomedical Informatics, an applicant must hold a minimum of a BSc (Honours) degree in biology, life sciences, biochemistry, medical sciences, computer science, biostatistics, engineering, and related disciplines from a recognized university or equivalent. The minimum acceptable average for admissions to these programs is B+ in the third and fourth years of the student's undergraduate program (all courses considered). Students applying from outside of North America whose native language is not English are required to submit TOEFL (or equivalent) scores. It is recommended that applicants have undergraduate training in biostatistics and experience in scientific computation. An assessment of these skills will be done immediately upon entry into the program enabling the identification of knowledge gaps and the subsequent development of a specific plan of study for each student when necessary. Although the program is aimed at recent graduates from undergraduate programs, applicants from professional programs such as medicine and nursing are also welcome.

Applications will be welcome from qualified under-represented groups.