Bioinformatics: MBinf, MSc, PhD

Do you want to become part of a revolution in biology? Technological advances have led to an explosion in the amount of biological information available to scientific communities, governments, and industry. The challenge now is how to organize, visualize, and interpret this vast amount of information. Bioinformatics seeks to make sense of biological processes on all scales, from the molecular level to full ecosystems, using powerful and efficient computational techniques. Graduate students in our bioinformatic programs apply skills in programming, statistics, and data management in their own research project. Areas of focus have included agricultural science, ecology, evolution, genetics, medicine, and veterinary science.

https://www.uoguelph.ca/bioinf/

Program

We offer two Master’s options and a Doctoral program. The coursework plus major research project Master of Bioinformatics (MBinf) is a three-semester program primarily tailored for students with a background in life sciences. The traditional thesis-based MSc in Bioinformatics (MSc) is a six-semester program for students who already have a strong background in computational science and/or statistics and wish to conduct substantial research leading to a thesis. The PhD program (nine semesters) requires that students successfully complete a qualifying exam and defend a research-based thesis.

Admission Requirements

MBinf:
- Honours BSc with a minimum B+ (75%) standing in the last two years of full-time equivalent study

MSc:
- Honours BSc with a minimum B+ (75%) standing in the last two years of full-time equivalent study

PhD:
- MSc/MBinf. with a minimum A- (80%) standing

Application Deadline:
March 31, 2018

Faculty and Laboratories

Our interdisciplinary programs aim to provide students with broad research and experiential opportunities to help meet their career goals. Over 50 researchers in funded laboratories in departments across campus are actively engaged in the bioinformatics graduate programs, thus providing students with opportunities to conduct cutting-edge and impactful research in a wide range of fields. All students have graduate advisory committees comprised of faculty in both life sciences and computational sciences in order to ensure that students have integrative and multidisciplinary research experiences.

ARE YOU INTERESTED IN:
- Integrating research that blends life sciences and computational statistics?
- Developing the computational and programming skills necessary to manage and analyze big data?
- Acquiring a background in bioinformatics?

CAREER OPPORTUNITIES:
- Bioinformatics
- Computer Sciences/Programming
- Healthcare/Life Sciences
- Software Development

CONTACT INFORMATION

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