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GUEST SPEAKERS

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University of Pennsylvania

Applied Bioinformatics

July 6-11, 2019

The MDI Biological Laboratory is pleased to present [Applied Bioinformatics](#) in our state-of-the-art training laboratory, the Maine Center for Biomedical Innovation.

Applied Bioinformatics is an introductory course designed to prepare advanced graduate students, post-doctoral trainees, and researchers at all levels to incorporate bioinformatics into their research. Hands-on experience is provided in bioinformatic data analysis of biomedical data, such as human or mouse gene expression. Tools used will include UNIX command line, R, FastQC, HISAT2, HTSeq, R Bioconductor, Galaxy, UCSC Genome Browser, and IGV. Participants should have a strong background in molecular biology. Prior experience in bioinformatics and computer programming skills are not required, but the course assumes a basic understanding of molecular biology and a willingness to learn simple programming in R.

Applicants may be interested in taking the [Environmental Genomics](#) course held immediately after this one. Though the two courses are independent, participants may benefit from taking both courses. Applied Bioinformatics paves the way for more complex experimental designs used in Environmental Genomics. Students enrolled in both courses received complimentary on-campus housing between courses to enjoy Acadia National Park and the Bar Harbor area.

More Information

Details on the course are available on the [Applied Bioinformatics](#) course page. Applications are open now. Advanced graduate students, post-doctoral trainees, and researchers at all levels are encouraged to apply.

Inquiries

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Dartmouth Lung Biology Center