Summer School for Computational Genomics

Course Sponsored by NIH
June 13 - 24, 2016

Learn how to apply computational tools to genomic sequencing data. Gain practical knowledge of genome browser and data analysis tools for RNA and DNA sequencing using real-life data sets.

Field trips to New York Genome Center, Columbia University, Weill Cornell Medical College. Meet with and learn from researchers in the field!

This summer school program is intended for first and second year graduate students in computer science or biology.

The selection process for participants is competitive, and those selected will be awarded the opportunity to be in the program.

Application Deadline: March 1, 2016

Topics (hands on):

- Intro to Scientific Computing, including Unix, Scripting, and Python
- Overview of the Human Genome and Genetic Variation
- Intro to Next Generation Sequencing & the Genomic Pipeline (GATK)
- Genomics in the Clinic
- Intro to Galaxy ToolKit, UCSC Genome Browser, 1000 Genomos, GWAS and WES data

Course Sponsor:
NIH Big Data to Knowledge (BD2K) 1R25EB020393
Educational costs are covered by this grant. Travel and housing stipends are available.

Location:
Icahn School of Medicine at Mount Sinai, in New York City, 1468 Madison Ave.

Course Coordinator:
Liz Szaluta
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Eligibility:
Applicants must be U.S. citizens or permanent residents.

For more information and to apply: mssm.edu/creeds

This program strives to enhance the diversity of the biomedical big data workforce through recruitment of individuals from diverse racial, ethnic, cultural, and socioeconomic backgrounds.