



Icahn  
School of  
Medicine at  
Mount  
Sinai

Meet with and learn  
from researchers  
in the field.

# Summer School for Computational Genomics

June 12<sup>th</sup> – 23<sup>rd</sup>, 2017

- 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.

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

*There is a competitive selection process for applicants, and for those selected, there is no fee to attend the course.*

*In addition, housing will be provided at no cost for those requiring it, and travel stipends are available for attendees traveling from outside the NY Metro area.*

## Topics include:

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

## Course Sponsor:

NIH Big Data to Knowledge (BD2K) 1R25EB020393

Educational costs are covered by this grant. Students accepted outside of the NY Metro area will be provided with travel and housing stipends for the duration of the program.

## Location:

Icahn School of Medicine at Mount Sinai  
1468 Madison Avenue,  
New York, NY 10029

## Eligibility:

Applicants must be U.S. citizens or permanent residents.

For more information and to apply, please visit: [mssm.edu/creeds](http://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.