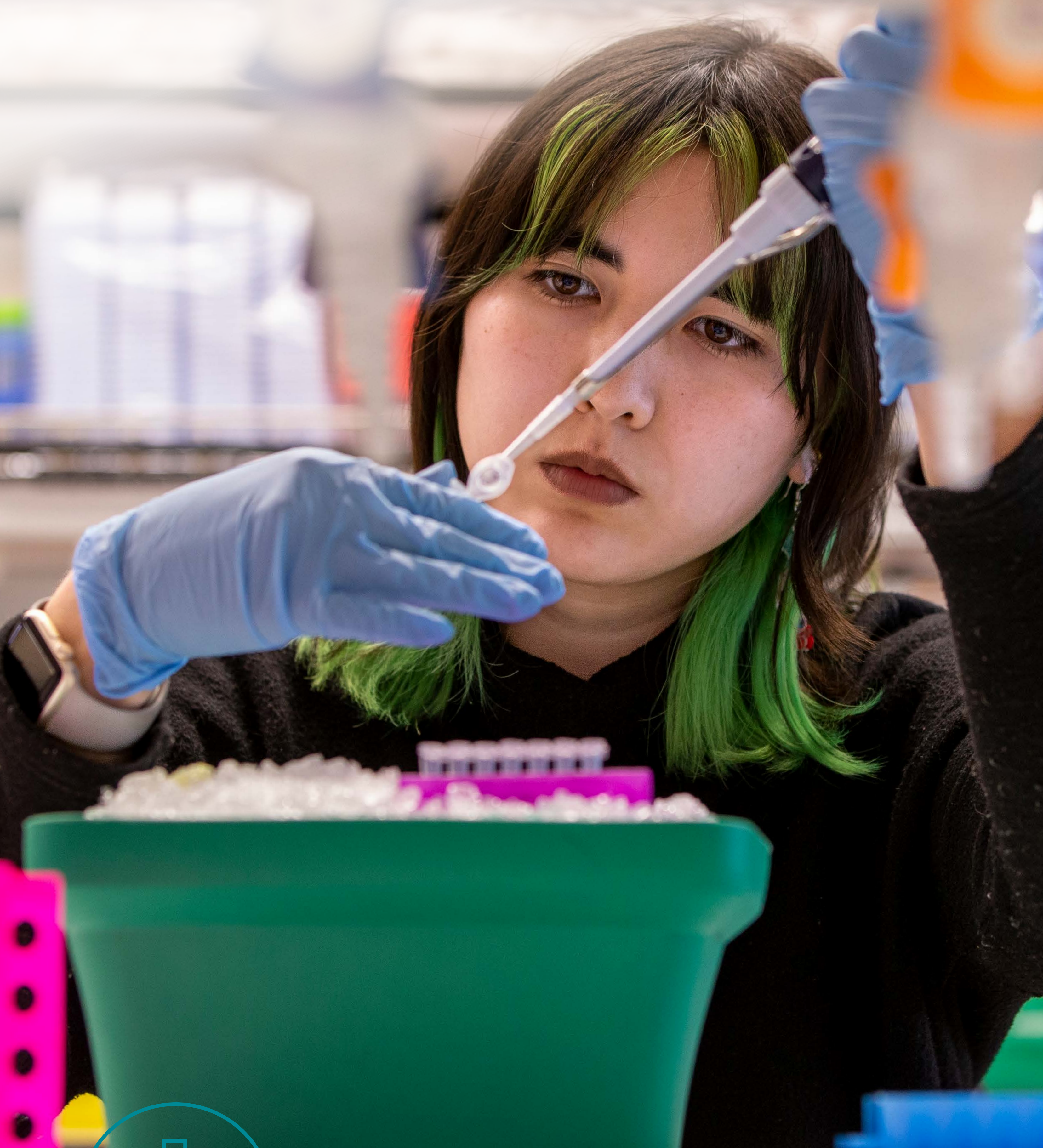




**NYU**

**TANDON SCHOOL  
OF ENGINEERING**



# BIOINFORMATICS

**Master of Science**





# ADVANCE TO THE FOREFRONT OF BIOTECH AND DATA SCIENCE

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With extraordinary breakthroughs that have led to new methods of interpreting and treating disease utilizing massive amounts of data, there is a rapidly growing demand for professionals with expertise in molecular biology and big data analysis. In this dynamic master of science program, you will hone your skills in a field that promotes advances in cancer management, vaccine design, agriculture, energy, and other important areas. Learn to employ genomic data and next-generation sequence analysis tools to solve critical biotechnology and pharmaceutical challenges.

- Flexible learning platform featuring live and interactive content
- Mentoring, academic advising and career coaching programs available
- 100% online courses

**2**  
**CONCENTRATIONS**  
Specialize in  
laboratory science or  
translational science

**30**  
**CREDITS**  
Required to  
complete the  
degree

**\$170K**  
Average U.S.  
salary for a  
bioinformatics  
career





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# WHY ONLINE EDUCATION?

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## Flexibility

Receive an NYU Tandon Engineering degree with the flexibility to balance your academic journey with your work schedule

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## Networking & Support

Benefit from connections with industry experts and leaders, mentorship programs, professional coaching, and more

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## Timely Knowledge

Our courses are constantly evolving to include information from cutting-edge fields



# CURRICULUM OUTLINE

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## Required Courses (18 Credits)

- Algorithms and Data Structures for Bioinformatics
- Problem Solving for Bioinformatics
- Biology and Biotechnology for Bioinformatics
- Statistics and Mathematics for Bioinformatics
- Applied Biostatistics for Bioinformatics
- Machine Learning and Data Science for Bioinformatics

## Elective Courses (9 Credits)

- Laboratory Science
  - Proteomics for Bioinformatics
  - Next Generation Sequence Analysis for Bioinformatics
- Special Topics in Informatics in Chemical and Biological Sciences
- Translational Science
  - Translational Genomics and Computational Biology
  - Population Genetics and Evolutionary Biology for Bioinformatics
- Transcriptomics

## Capstone Experience (3 Credits)

- Bioinformatics Capstone Project Course

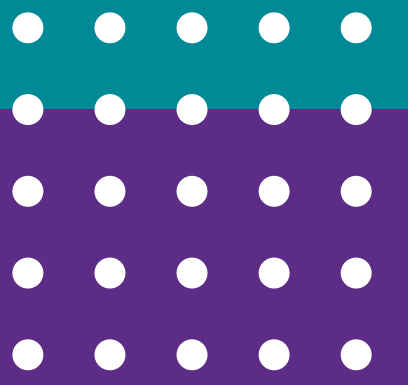


*The reason I applied to NYU was because I was so fascinated with where biology was moving, and that's big data analysis. We learned Perl and Python, and I am now able to create my own scripts, to go through the genomes or whatever I happen to be looking at myself. The bioinformatics program has set me up for where I am now."*

### Carmen Wickware

Bioinformatics, Master of Science Online,  
Graduate Research Assistant at Purdue University,  
specializing in applied microbiology





# ENGAGE IN UNPARALLELED NETWORKING OPPORTUNITIES

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NYU Tandon collaborates with top industry partners to benefit you as a student in bioinformatics. As you become immersed in our award-winning online program and pursue your graduate degree, you will be connected with like-minded professionals from around the world. Our partners include:



ESTÉE LAUDER

*News Corp*

WELLS  
FARGO



# HOW TO APPLY

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To be eligible for consideration to any graduate program at NYU Tandon, you must hold a bachelor's degree from a regionally accredited U.S. institution or its international equivalent. Review the application requirements for the Bioinformatics, M.S. and follow all application deadlines.

## ADMISSION REQUIREMENTS

Create an account to start a new application.

In addition to your completed application, you will need to submit:

- Transcripts from all colleges or universities attended
- A resume
- Statement of purpose
- Two letters of recommendation
- ~~GRE or GMAT score~~ **WAIVED**
- The application fee

## START NOW

[grad.engineering.nyu.edu/apply](https://grad.engineering.nyu.edu/apply)



NYU

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## Digital Learning

call: 646.997.4043 • text: 877.642.7883

[tandon.digital.learning@nyu.edu](mailto:andon.digital.learning@nyu.edu)