



PhD in Bioinformatics & Systems Biology

The BISB program trains students in interdisciplinary bioinformatics research focused on understanding cellular, molecular, and genetic mechanisms in both basic science and in development and disease pathogenesis. As part of IGPBS (unmc.edu/igpbs/about) and with more than 50 faculty members participating across the University of Nebraska system, BISB students are provided with many opportunities to explore a wide range of research disciplines. We provide training in 'omics' analysis and other bioinformatics approaches and strive to prepare students to be innovative scientists and educators.



Unique Experiences

The BISB doctoral program offers research opportunities and classes that cultivate a challenging, collaborative and enthusiastic training environment. See the website for details about our courses in biology, computation, and fellowship writing.

BISB Innovative Research

- Mutation in Human Disease
- Cancer / Tumor Microenvironment
- Transcription Dynamics / Splicing
- Epigenomics
- Stem Cells / Developmental Biology
- Cell and Tissue Regeneration
- And Much More!

"[The coursework] teaches you the necessary skills to quickly become a power user with regards to programming... The BISB program does a great job of bridging the gap between computer scientists and [biology] researchers"

Cleo Sarmiento, BISB PhD Student



Apply at unmc.edu/igpbs/admissions

Learn more at: <https://www.unmc.edu/igpbs/research/bisb/index.html>

UNMC / Nebraska Info

- University of Nebraska has over 51,000 undergraduate and graduate/professional students on four campuses.
- UNMC is rapidly expanding Bioinformatics and recently announced the Center for Biomedical Informatics Research and Innovation
- Find the world's largest indoor rainforest and indoor desert at Omaha's Henry Doorly Zoo and Aquarium
- 80% of the world's Sandhill Cranes rest in Nebraska during their migration.
- Arbor Day first began in Nebraska and is celebrated by an annual festival.
- Omaha's cost of living is 85% lower than New York City.