

# Genomics, Phenomics, and Bioinformatics

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## Department Information

- **Program Director:**  
Changhui Yan, Ph.D.
- **Email:**  
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- **Department Web Site:**  
[www.ndsu.edu/gpb/](http://www.ndsu.edu/gpb/) (<http://www.ndsu.edu/gpb/>)
- **Application Deadline:**  
International applications are due May 1 for fall semester and October 1 for spring and summer semesters. Domestic applicants should apply at least one month prior to the start of classes.
- **Credential Offered:**  
Ph.D., M.S.
- **English Proficiency Requirements:**  
TOEFL iBT 71, IELTS 6; Duolingo 105

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The Genomics, Phenomics, and Bioinformatics (GPB) program is an interdisciplinary graduate program that spans multiple colleges at North Dakota State University (NDSU). The program offers Ph.D. and M.S. degrees in three program areas: functional genomics, phenomics, and bioinformatics.

The program is designed to provide students the necessary skills and intellectual background to work cooperatively with others in a research area that take a systems-wide approach to the study of the organization of life and expression and regulation of genes in an organism. Students in the program will perform advanced study, training and research in areas that focus on functional genomics, high-throughput phenotyping, and computation analysis of genomic and phenomics data. Students will learn and master the multi-omics approaches for research in many frontiers. Exposure to modern techniques, instrumentation, computational and statistical methods will prepare the student for success in both industrial and academic careers.

Faculty in the program have broad research focuses including plant and human growth and development, reproduction, defense against abiotic and biotic stresses, and computational and statistical methods.

Visit the program website to find more information about the program, including faculty members and their research: [www.ndsu.edu/gpb/faculty\\_and\\_research/](http://www.ndsu.edu/gpb/faculty_and_research/) ([https://www.ndsu.edu/gpb/faculty\\_and\\_research/](https://www.ndsu.edu/gpb/faculty_and_research/)).