



The **Bioinformatics & Data Science (BIDS)** PhD program will provide opportunities for graduate students with diverse backgrounds to gain expertise in the field of biomedical informatics and data science, to train as future biomedical researchers and industry leaders in biomedical informatics and data science core competencies, and to engage in scholarly activities under the guidance of experienced informatics faculty. Beyond an educational program, the mission of BIDS is to support biomedical informatics and data science practice through applied research in real-world settings.

Throughout their training, learners will interact with patients, providers, and the healthcare data ecosystem in addition to working at the bench. The BIDS program will promote interdisciplinary collaboration in solving problems in clinical practice, individual and population health, data science, and biomedical research, through the optimal use of information.

## Research Environment

Training opportunities will include the five areas as defined by the American Medical Informatics Association (AMIA):

- Applied Clinical Informatics (ACI): application of innovative measurement and informatics approaches to inform and improve clinical practice.
- Consumer Health Informatics (CHI): investigating consumers' needs and integrates consumers' preferences into health information systems.
- Clinical Research Informatics (CRI): managing information related to clinical trials as well as secondary use of clinical data.
- Translational Bioinformatics (TBI): developing storage, analytic, and interpretive methods to optimize the transformation of biomedical data.
- Population Health Informatics (PopHI): integrating aspects of public health, clinical informatics, and health care delivery.

# Biomedical Informatics & Data Science



## Required Courses

- Foundations of Biomedical Informatics and Data Science (I)
- Introduction to Biomedical Computing and Data Science (I)
- Acculturation to Pathophysiology and Clinical Medicine (I)
- Data Science Journal Club and Seminar Series
- Graduate Research Fundamentals
- Foundations of Biomedical Informatics and Data Science (II)
- Introduction to Biomedical Computing and Data Science (II)
- Acculturation to Pathophysiology and Clinical Medicine (II)
- Biomedical Informatics and Data Science Journal Club and Seminar Series

APPLICATION  
DEADLINE

DECEMBER

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**EXPLORE & APPLY:**  
[tinyurl.com/dbbstour](https://tinyurl.com/dbbstour)

For more information about the **BIOINFORMATICS & DATA SCIENCE** program and faculty research:

[tinyurl.com/dbbs-bidsfaculty](https://tinyurl.com/dbbs-bidsfaculty)



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## Program Benefits & Support

- Full tuition funding and benefits\*, including:  
generous stipend | travel funds for scientific meetings | health, life, and disability insurance coverage
- Opportunities to obtain nationally competitive fellowships, awards, and grants
- Free Metro U-Pass to travel in and around the St. Louis area
- Access to all university educational, entertainment, and recreational resources

*\*guaranteed, provided that satisfactory progress towards completion of degree requirements is met*

**DBBS celebrates diversity in all of its forms.**

*We invite all students to apply, especially those from backgrounds historically underrepresented in the sciences, such as African, Latin, and Native Americans, those with disabilities, and individuals from low-income backgrounds.*

**To learn more about DBBS' diversity initiatives, visit:** <https://tinyurl.com/dbbsdiversity>