

Learn more

Visit us

We encourage interested students to visit us and experience our outstanding learning environment first-hand. Visitors will go on a tour, meet faculty and current students, and sit in on classes. Contact us today!

Contact us

Phone: 314-362-1384

Email: biostat-msbds@email.wustl.edu

Web: biostatistics.wustl.edu

Facebook: [@WashingtonUniversityBiostatistics](https://www.facebook.com/WashingtonUniversityBiostatistics)

Washington University School of Medicine

Division of Biostatistics

660 S. Euclid Ave., CB 8067

St. Louis, MO 63110

MASTER OF SCIENCE IN Biostatistics and Data Science

For a new generation of quantitative scientists

In today's research and health care environments, **biostatisticians and data scientists** translate data into discovery, **advancing medicine every day**. We are ready to prepare you as a leader in this varied, growing and rewarding field.

Our unique training program offers core data science learning in statistical and computational methodologies along with practical training in real-world data analysis of cutting-edge biomedical and genomics research.

The program

In addition to coursework, students choose between an internship experience or mentored research project. Graduates leave our program fully prepared to pursue doctoral studies or to gain employment in academia, government or industry.

- Get hands-on experience with big data analysis of real and interesting data sets
- Learn from supportive, accessible faculty in biostatistics, informatics, genetics, medicine and public health
- Grow as an integral member of a research team
- Apply for a research assistant position for an additional training opportunity

Preeminent research environment

Washington University School of Medicine is among the largest academic research institutions in the world and ranks among the top 10 nationally in National Institutes of Health (NIH) research funding. Our students excel in this leading-edge environment with faculty who are among the best in their fields.

Curriculum*

- Statistical Computing with SAS
- R for Data Science
- Biostatistics I
- Biostatistics II
- Introduction to Bioinformatics
- Fundamentals of Genetic Epidemiology
- Biomedical Informatics I: Foundations
- Biomedical Informatics II: Methods
- Study Design and Clinical Trials
- Survival Analysis
- Biomedical Data Mining
- Ethics for Biostatistics and Data Science
- Internship or Mentored Research I
- Internship or Mentored Research II
- Elective (from an approved list)

*subject to change



Hallmarks of the institution

- Groundbreaking investigations in imaging, neuroscience, cardiovascular diseases, genetics, genomics, proteomics, cancer immunology and many other fields
- Exceptional expertise and infrastructure in biostatistics, data science and informatics
- Collegiality and multidisciplinary collaboration
- Emphasis on effective mentorship

Application

Apply online: www.applyweb.com/wustl

Deadline: **January 31, 2019**

Fee: **\$50.00**

You will be asked to submit the following:

- Personal statement
- CV or resume
- Three letters of recommendation
- Transcripts
- Official GRE scores (school code 6929, department code 0601)
- Official TOEFL or IELTS scores for international students

Prior coursework

Prerequisites:

- Calculus I
- Calculus II
- Elementary Probability and Statistics or Introduction to Statistics
- Computer Programming

Highly recommended:

- Linear Algebra
- Data Structures and Algorithms
- Calculus III
- Introduction to Biology and Genetics

Financial aid

All students are considered for merit-based scholarship. Financial aid is available for qualified students.

AT A GLANCE • 18 months • 42 credit hours • Summer matriculation