The Master of Science in Biostatistics (MSIBS) degree program is housed within one of the nation’s premier medical research institutions. Our program provides personalized assistance to students from the application process to graduation and beyond.

Prospective students are welcomed and encouraged to visit. Guests will receive a tour, opportunities to meet faculty and current students and to sit in on classes.

Please contact us if you have questions.

We look forward to hearing from you!

Application deadline: January 31, 2019
https://www.applyweb.com/wustl/index.ftl
MSIBS: Master of Science in Biostatistics

The trained biostatistician is an essential member of the medical research team. Every project, every study, and every important medical breakthrough needs someone who understands the data behind the discoveries.

If you have an undergraduate background in statistics, math and science and have an interest in medical research, you may find that in 18 short months, you could be ready to assume that role.

Students in the MSIBS program at Washington University in St. Louis School of Medicine are taught by scientists and researchers at one of the top ranked medical research universities in the nation. Through classroom instruction, hands-on lab experience and an internship, students become integrated into the world of medical research. Many students also complement their studies with a research assistant position.

HOW TO APPLY

Prerequisites:
- Calculus 1
- Calculus 2
- Elementary Probability and Statistics
- Computer Programming

Highly Recommended:
- Calculus 3
- Introduction to Biology/Genetics
- Linear Algebra

Application fee is $50.00. You will be asked to submit the following:
- Personal statement
- CV or resume
- 3 letters of recommendation
- Transcripts
- Official GRE scores (school code 6928, department code 0601)
- Official TOEFL scores for international students

Application deadline is January 31, 2019.

COURRULUM

The MSIBS degree is an 18 month, 42 credit hour program. The program starts in the Summer and prior to the Fall semester, students will choose either a traditional Biostatistics or Statistical Genetics pathway.

Courses are outlined below (subject to change).

1st Summer (intensive session)
- Statistical Computing with SAS®
- Biostatistics 1
- R for Data Science

1st Fall
- Biostatistics II
- Fundamentals of Genetic Epidemiology
- Introduction to Bioinformatics
- Pathway course: Intro to Epidemiology or Human Genetic Analysis

1st Spring
- Ethics for Biostatistics & Data Science
- Study Design and Clinical Trials
- Pathway course: Survival Analysis or Computational Statistical Genetics
- Elective

2nd Summer
- Internship

2nd Fall
- Mentored Research (thesis) or Two Electives
- Elective

MSIBS graduates are employed in academia, government and industry, or have pursued higher education.

Experience—the MSIBS difference

These are just a few examples of the kinds of projects MSIBS students have pursued during their studies at Washington University. Many have attended conferences, presented papers and been published based on their work as a MSIBS student.

- Does exercise reduce hypoglycemia in individuals with diabetes
- How to reduce unnecessary pediatric blood transfusions
- Physical activity, obesity and ovarian cancer survival
- Changes in brain structure in Alzheimer’s disease
- Neurocognitive disorder in individuals with HIV
- Large-scale, epidemiological and genetic longitudinal evaluation of metabolic syndrome
- Role of exposure to environmental chemicals in obesity and lipid metabolism
- Diagnostic differences in PTSD from DSM-IV to DSM-V
- Understanding likelihood of proliferation in neurofibromatosis tumors
- Carpal tunnel syndrome prevention in construction workers
- Relationship between two biomarkers of systemic inflammation and cancer risk/mortality
- Age of onset of smoking and probability of smoking cessation

WASHING_ TON UNIVERSITY...IN ST. LOUIS

Students in the MSIBS Program have the opportunity to take advantage of all the resources of one of the top medical centers in the nation.

St. Louis is a friendly, affordable place to live as a graduate student. Many housing options are available in the Central West End or students may choose to live in the dorm right on campus. Students receive free access to all St. Louis public transportation which makes getting around easy—whether you’re going to the airport, a Cardinals game, a free concert in the park, or downtown to enjoy the nightlife.

Forest Park, directly west of the medical center, is one of the largest urban parks in the U.S. and home to the zoo, art museum, outdoor theater and miles of trails for running and biking.

Cost of living is an important consideration when you’re thinking of graduate school. Some things to know about MSIBS:
- Excellent health insurance is included as part of your tuition
- Studio apartments near campus can be found for under $700 a month
- Inexpensive car-share programs available
- All students are considered for merit-based scholarships; in recent years 100% of students have received substantial awards
- All students have the opportunity to apply for research assistantships

2019-20 tuition is $1,345 per credit hour and slightly higher for 2020-21 making the full tuition for the 18 month program around $57,000.