

Master of Science in Biostatistics

Capstone Projects



Sponsor Experience

As a project sponsor, you are the client. The ideal project will be an opportunity for MS Capstone students to help sponsor organizations attack a **challenging and important real-world problem**. The end product will enable the sponsor to better achieve their goals and will represent a culminating learning experience that graduating students can use to showcase their technical and professional skills.

You will ensure the project team has access to the information necessary to successfully complete the project. Our graduate students will apply **advanced statistical methodologies** to determine the best result for your organization's needs. As the project evolves, you will work with them to define an **impactful final product** that will be delivered to you by the end of the project period.

Example Capstone Projects

- **Developing Proxy Measures for Functional Limitations Due to Back Pain to Improve Treatment Outcomes** – *Dept of Radiology and Neurological Surgery, UW Medicine*
- **Using Administrative Data to Identify Cancer Cases for Research** – *Women's Health Initiative, Fred Hutchinson Cancer Research Center*
- **Using Hyper-local Air Pollution Data to Advance Environmental Justice** – *Aclima, Inc*

Theory Meets Practice

Our program is designed to educate a new generation of biostatisticians. The innovative core curriculum provides a rigorous and applications-driven foundation in statistical theory and methods (the science of biostatistics) and biomedical data analysis (the practice of applying biostatistics), all with the goal of improving human health.

Student Specializations

- **Data Science:** Students learn statistical and computing tools that unlock the puzzles of big data and its potential to dramatically improve public health.
- **Statistical Genetics:** Students study the mathematical and biological science that underpins the understanding of the genetic basis of diseases.
- **Modeling and Methods:** Students master advanced mathematical and statistical techniques that allow analysis of complex data structures and simulate realistic biological systems.

SPONSOR A BIOSTATISTICS CAPSTONE PROJECT

Join an energetic community of students, faculty and scientists at the cutting-edge of impactful data science research and practice

PROPOSALS ACCEPTED

Project proposals accepted starting November 2020.

PROJECT DATES

September 2021 – March 2022

PLEASE EMAIL

biostcapgp@uw.edu for additional information and proposal materials.