The Graduate Program in Human & Statistical Genetics uses an integrated, leading-edge approach to the study of human disease. It prepares future human geneticists to master novel statistical methods and acquire the expertise to perform all phases of human genetics research from the laboratory bench to effective data analysis. This Program targets two types of students: Those majoring in biological sciences with a background in the analytical/statistical/computational area and those with majors in statistical/mathematical/analytical sciences with a background in biology. Dissertations are typically devoted to analysis of a biological problem pertaining to human or mammalian biology or to the development of a novel analytical method.

**what is human & statistical genetics?**

Human genetics in this context is the study of inheritance and the identification of disease loci in humans, including explorations of the underlying biology. Statistical genetics deals with statistical methods for analysis of human genetics data.

**Research Environment**

Program faculty are engaged in a wide variety of human and mammalian research projects to understand the molecular basis of normal and disease states.

**Areas of research include:**
- detection of loci for simple and complex/quantitative traits in humans
- association analyses for common and rare variants
- development of novel statistical methods for gene discovery
- mapping of simple and quantitative traits in model organisms
- genomic approaches to gene expression, transcriptional regulation and development
- functional analysis of genes and variants for human disease

Find information on HSG faculty research

[http://dbbs.wustl.edu/divprograms/hsg/Pages/Faculty.aspx](http://dbbs.wustl.edu/divprograms/hsg/Pages/Faculty.aspx)

**For More Information:**

[http://dbbs.wustl.edu/divprograms/hsg/](http://dbbs.wustl.edu/divprograms/hsg/)

To request information: [dbbs-info@wustl.edu](mailto:dbbs-info@wustl.edu)
benefits
- Health, life and disability coverage are provided.
- Students in the Division enjoy access to all of Washington University’s educational, entertainment and recreational resources.
- The University’s MetroPass provides all students with free use of Metro-Link lightrail and Metro buses. MetroLink connects students to all Washington University campuses, Forest Park, Clayton, Lambert Airport and downtown.

stipend and support
- Each student accepted into the Division is guaranteed a generous stipend and tuition is provided for the duration of training as long as all academic standards are upheld.
- Many students hold national fellowship awards, such as those offered by the National Science Foundation.
- Funds are provided for students to attend and participate in a scientific meeting.

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 diversity initiatives in DBBS please visit [http://dbbs.wustl.edu/divoutreach/Pages/DiversityOutreach.aspx](http://dbbs.wustl.edu/divoutreach/Pages/DiversityOutreach.aspx)