The University of Washington (UW) is proud to be one of the nation's premier educational and research institutions. Our people are the most important asset in our pursuit of achieving excellence in education, research and community service. Our staff not only enjoys outstanding benefits and professional growth opportunities, but also an environment noted for diversity, community involvement, intellectual excitement, artistic pursuits, and natural beauty.

The University of Washington’s Division of General Internal Medicine (GIM) is considered to be among the top five Divisions of General Internal Medicine in the nation. General Internal Medicine, established in 1985, has rapidly grown to be the largest Division in the UW Department of Medicine. The Division has a workforce of approximately 400, including nearly 300 faculty members who are known for their outstanding research, teaching and patient care. The Division conducts its activities at the UW Medical Center (UWMC), Harborview Medical Center (HMC), and the VA Puget Sound Health Care System (VAPSHCS), with research sites located at multiple sites across Seattle.

GIM is the largest division in the Department of Medicine with over 30 research faculty, 125 current grants and an annual budget of $43 million. The Division’s Clinical Practice at UWMC and HMC generates gross billings of close to $14 million annually with over 140 faculty members participating in direct patient care. Faculty and staff are spread between more than 10 sites; the main research sites are located at UWMC, HMC, Pat Steel, Metropolitan Park, the University District, and Fremont, with 85 staff spread amongst these locations.

The Department of Medicine, Division of General Internal Medicine has an outstanding opportunity for a Research Scientist/Engineer 3. The Research/Scientist Engineer 3 will serve as a statistician on a large number of psychometric projects, especially focused on cognition and dementia. This individual in this position will be responsible for identifying and developing new methodology, designing research and grant proposals, organizing datasets and presenting at national and international meetings.

The Research Scientist/Engineer 3 will be based at Harborview Medical Center’s Ninth & Jefferson building.
and will be active in using modern psychometric and Bayesian approaches to address neuropsychological datasets from the Health and Retirement Study (HRS). This position will be working on analyzing the datasets for the PITCH project.

The Research Scientist/Engineer 3 will primarily work on data from the Psychometric Integrative Technology for Cognitive Health (PITCH) project. This project is gathering cognitive data from the Health & Retirement Study (HRS) and partner studies from around the world. HRS is an important National Institute on Aging initiative to gather data on a representative sample of older adults in the United States, including cognitive data, to understand the relevance of late-life cognitive functioning on a variety of important outcomes. The PITCH project will use modern psychometric approaches to co-calibrate data across HRS and its companion studies from around the world. This individual will also evaluate associations between a variety of different risk factors and cognitive functioning among elderly people; the design of the study facilitates extensive opportunities for replication.

Duties and Responsibilities include the following:

**Project Management and Data Analyses**

- Manage the Psychometric Integrative Technology for Cognitive Health Research (PITCH) project; the PITCH project serves to analyze the datasets collected from the Health & Retirement Study (HRS).

- Collaborate with other investigators nationally and internationally on a variety of projects; identifying, developing and applying recent and new methodology;

- Communicate closely with research study personnel regarding changes and updates within the project. This individual will work closely with the Scientific Data Manager to coordinate datasets;

- Develop new computer software approaches to analyze datasets generated from the Health & Retirement Study (HRS);

- Develop statistical modeling and co-calibrate datasets;

- Contribute to the organization and content of national and international meetings and workshops.

- Employ Bayesian methods to analyst datasets; compare and contrast Bayesian approaches to other standard, modern psychometric approaches;

- Analyses of psychometric data using the tools of modern psychometric theory; including item response theory, bi-factor models, structural equation modeling, and generalized hierarchical Bayesian models.

- Perform advanced statistical modeling using R, C++, WinBUGS, or other Bayesian packages Mplus, Stata, and/or SAS.
• Develop and coordinate detailed study protocol and research instruments.

**Manuscript Contribution**

• Lead or co-authorship of manuscripts.

• Prepare grant proposals for submission.

• Draft and edit manuscripts for publication.

**Additional Responsibilities**

• Contribute to and assist with PowerPoint presentations.

• Attend research related meetings with other contributors.

As a UW employee, you will enjoy generous benefits and work/life programs. For detailed information on Benefits for this position, [click here](#).

**REQUIREMENTS:**

• Bachelor’s Degree in Biostatistics, Statistics, Educational Psychology, Mathematical Psychology and/or related field plus three years of job related experience.

**Additional Requirements:**

• Expert ability in Bayesian approaches to statistical inference

• Expert ability in Microsoft (Word, Excel, Outlook)

• Clear communication skills

• Strong organizational and time management skills

• Detail-oriented, pro-active and flexible

*Equivalent education/experience will substitute for all minimum qualifications except when there are legal requirements, such as a license/certification/registration.*

**DESIRED:**

• Doctoral Degree in Biostatistics, Statistics, Educational Psychology, Mathematical Psychology
• Experience applying methods such as the Robbins-Munro algorithm and/or likelihood approaches to scale analyses.

• Familiarity with neuropsychological testing would be optimal.

Condition of Employment:

Appointment to this position is contingent upon obtaining satisfactory results from a criminal background check.

Application Process:

The application process for UW positions may include completion of a variety of online assessments to obtain additional information that will be used in the evaluation process. These assessments may include Workforce Authorization, Criminal Conviction History, Cover Letter and/or others. Any assessments that you need to complete will appear on your screen as soon as you select “Apply to this position”. Once you begin an assessment, it must be completed at that time; if you do not complete the assessment you will be prompted to do so the next time you access your “My Jobs” page. If you select to take it later, it will appear on your "My Jobs" page to take when you are ready. Please note that your application will not be reviewed, and you will not be considered for this position until all required assessments have been completed.

The University of Washington is a leader in environmental stewardship & sustainability, and committed to becoming climate neutral.

The University of Washington is an equal opportunity, affirmative action employer. To request disability accommodation in the application process, contact the Disability Services Office at 206-543-6450 / 206-543-6452 (tty) or dso@uw.edu.

Apply for this job