About the Job

The School of Public Health is committed to anti-racism and anti-oppression in our mission and operations. In pursuit of this goal, we consider an applicant’s record working with individuals from historically marginalized backgrounds, and experience identifying and eliminating systemic barriers to success in an academic environment. SPH seeks to increase the diversity of its workforce, we particularly encourage applications from those who belong to groups that have been historically underrepresented in our discipline, including those who are Black, Indigenous, and people of color, those with disabilities, and those from LGBTQIA+ communities.

Applications are invited for a postdoctoral associate position in Biostatistics in the School of Public Health, Division of Biostatistics, University of Minnesota, Minneapolis, MN. The successful candidate will work with Dr. Thierry Chekouo and his collaborators within and outside the University of Minnesota. The research will focus on the development of Bayesian statistical/machine learning methods for the data integration analysis of high-throughput imaging and molecular data (i.e., genome, transcriptome, epigenome, and more). The methods would be able to systematically integrate biomedical/biological knowledge to improve the prediction power of clinical outcomes. Domains of applications may include cancer and cardiovascular diseases, and neurodevelopment disorders. The post-doc will also work on software development (in R, or in Python, Java, Stan, or BUGS or interfacing R with C/C++), simulation studies, real data analysis, and writing manuscripts.

This appointment is for 1-2 years, with a possible extension to year 3, contingent on satisfactory performance and funding availability.

Starting Date: Negotiable. Position will remain open until filled.

Questions? For preliminary inquiries, you may send your CV to tchekouo@umn.edu

Qualifications

A PhD degree in Biostatistics, Statistics, or a related field, strong computing/programming and communication skills, and a strong interest in omics and/or imaging data analysis are required. Experience in Bayesian high-dimensional data analysis is highly preferred.

About the Department

The Division of Biostatistics, School of Public Health, at the University of Minnesota has significant strengths in the areas of spatial and spatiotemporal statistics, especially as applied in environmental or climatological science and related health impacts, the development of innovative approaches, methods, and software for the manipulation and analysis of “big data” in the biomedical sciences, especially using machine learning techniques, and structural equation modeling (SEM), causal analysis, and other methods useful for accounting for latent factors in observational data. Current research in statistical methodology includes causal modeling, adaptive clinical trials, statistical genetics and bioinformatics including genomics and proteomics, analysis of spatial and longitudinal data, medical imaging methods, Bayesian methods, computer-intensive methods such as Markov chain Monte Carlo, survival analysis, and statistical data mining. Our faculty’s methods grants complement our large, more collaborative research projects with investigators in the University’s Academic Health Center.

At the present time, the Division has statistical and data coordinating centers for NIH-funded clinical trials networks in HIV/AIDS, Ebola and other infectious diseases, and in lung and cardiovascular disease. The Division also collaborates actively on research in cancer prevention and treatment, dentistry and periodontology, psychiatry/psychology, environmental and occupational health, health policy, chronic and neurodegenerative diseases, and smoking prevention. Multi-year grants and contracts for various Divisional projects total over $150 M.

The Division of Biostatistics (www.sph.umn.edu/biostatistics) currently includes 38 graduate faculty and 65 staff. The Division offers MS, MPH, and PhD degrees, and interacts in teaching, advising and research with the University of Minnesota School of Statistics. At the present time, the Division has 96 graduate students (45 MS and 51 PhD).
**How To Apply**

Applications must be submitted online and must contain the following documents.

- Cover letter
- Curriculum vitae
- Graduate transcripts
- Contact information of at least two referees.

Go to the University of Minnesota’s careers site to submit your application: [https://hr.myu.umn.edu/jobs/ext/350508](https://hr.myu.umn.edu/jobs/ext/350508). Click the Apply button and follow the instructions. You will be given the opportunity to complete an online application for the position and attach a cover letter and resume.

Additional documents may be attached after application by accessing your "My Job Applications" page and uploading documents in the "My Cover Letters and Attachments" section.

To request an accommodation during the application process, please e-mail employ@umn.edu or call (612) 624-UOHR (8647).

**Diversity**

The University recognizes and values the importance of diversity and inclusion in enriching the employment experience of its employees and in supporting the academic mission. The University is committed to attracting and retaining employees with varying identities and backgrounds.

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. To learn more about diversity at the U: [http://diversity.umn.edu](http://diversity.umn.edu).

**Employment Requirements**

Any offer of employment is contingent upon the successful completion of a background check. Our presumption is that prospective employees are eligible to work here. Criminal convictions do not automatically disqualify finalists from employment.

Please note: All employees at the University of Minnesota are required to comply with the University’s Administrative Policy: COVID-19 Vaccination and Safety Protocol by either providing proof of being fully vaccinated on their first day of employment, or complete a request for an exemption for medical exemption or religious reasons. To learn more please visit: [https://safe-campus.umn.edu/return-campus/get-the-vax](https://safe-campus.umn.edu/return-campus/get-the-vax)

**About the U of M**

The University of Minnesota, Twin Cities (UMTC), is among the largest public research universities in the country, offering undergraduate, graduate, and professional students a multitude of opportunities for study and research. Located at the heart of one of the nation’s most vibrant, diverse metropolitan communities, students on the campuses in Minneapolis and St. Paul benefit from extensive partnerships with world-renowned health centers, international corporations, government agencies, and arts, nonprofit, and public service organizations.