General Description: Non-tenure track **faculty** position, **Research Associate** candidate will devote primary effort to the Johns Hopkins Individualized Health Initiative (**Hopkins inHealth**), and secondary effort to statistical consultation within the Johns Hopkins Biostatistics Center (JHBC), the statistical practice arm of the world-renowned Department of Biostatistics. [https://www.jhsph.edu/research/centers-and-institutes/johns-hopkins-biostatistics-center/](https://www.jhsph.edu/research/centers-and-institutes/johns-hopkins-biostatistics-center/). An 60%/40% allocation of primary / secondary roles is envisioned.

The Johns Hopkins Individualized Health Initiative (**Hopkins inHealth**) is a university-wide strategic initiative to turn precision medicine into reality, leveraging the university’s multi-disciplinary expertise as well as its best-in-class data analytics infrastructure. Observational Health Data Science and Informatics (**OHDSI**) is an international, multi-stakeholder collaborative, developing data analytic infrastructure to generate reliable clinical evidence from observational health data. Johns Hopkins has adopted the OHDSI’s OMOP Common Data Model as the data standard of choice for its Precision Medicine Analytics Platform (**PMAP**) and is an active contributor to the OHDSI community.

The candidate is expected to help create further synergy between the domain expertise of Johns Hopkins’s Precision Medicine Centers of Excellence and the extensive health data network provided through our OHDSI collaboration. The roles of the data scientist/statistical engineer include:

- Execute OHDSI studies (e.g. for cohort characterizations and comparative effectiveness) on Johns Hopkins’s EHR data to support clinicians;
- Collaborate with statisticians and clinicians to continuously integrate state-of-the-art statistical tools to the inHealth/OHDSI tool stack for deployment;
- Mentor trainees on data science and software development skills;
- Co-teach courses on observational health data analytics and data science skills at School of Medicine and Public Health;
- Facilitate adoption of the inHealth tools among the broader OHDSI community by contributing to OHDSI’s Health Analytics Data-to-Evidence Suite.

The JHBC effort focuses on providing biostatistical consultations to researchers at the Johns Hopkins Bloomberg School of Public Health, Johns Hopkins Medical Institutions, and external organizations. These consultations range from short in-person sessions to longer-term projects and focus on study design, sample size justification, reviewing of statistical approaches, data management, data visualization, programming, statistical analysis, reporting, and development of software, apps, or dashboards. Project-related final products generally include conference abstract submissions, grant applications, study-specific reporting, and scientific manuscripts. The candidate is expected to work as part of a team of data managers and biostatisticians in the center. They will also regularly interact and collaborate with a broader community of consultative statisticians in the institution and will have access to a variety of data sources, exposure to a broad range of substantive and methodological problems that address scientific and societal challenges. The role might be extended to address future strategic initiatives in the center.

The appointment is primarily in the Johns Hopkins Department of Biostatistics, founded in 1918, as the first degree-granting department of statistical science in the US and has ranked among the
world’s best throughout its history. We are located in Baltimore, a multi-ethnic city with a
thriving cultural life and a rich history that is older than the nation, a food-lover’s paradise, and
close to Washington DC, Philadelphia, and New York City. Johns Hopkins University has a deep
commitment to diversity, equity, and inclusion.

Benefits include professional development opportunities, including continuing education
courses and materials, tuition remission, travel to conferences.

Required Qualifications:

- PhD degree, or Master’s with at least 3 years of experience in applied statistics and/or data
  science disciplines such as biostatistics, computational biology, computer science,
  epidemiology, health informatics, as well as other quantitative data-intensive fields;
- Basic software engineering skills, such as knowledges of: Unix tools, version control
  systems (e.g. git and Github), virtualization (e.g. Docker), etc;
- Proficiency in software package development, especially in R;
- Experience analyzing modern, large-scale data;
- Experience contributing to open-source software projects;
- Adapt quickly to new problems and challenges;
- Willingness to stay current with latest data science tools and learn new statistical
  techniques as needed;
- Commitment to translating data science research into real-world impacts;
- Demonstrated excellence in statistical consulting and cross-disciplinary collaboration;
- Effective team player and ability to work independently;
- Excellent oral and written communication skills

Preferred Skills:
Proficiency in other statistical software programs (in addition to R), such as STATA or SAS

Experience in the design, conduct, monitoring, analysis, and reporting of clinical trials, including
protocol reviews, drafting and revision of statistical analysis plans, sample size justifications,
preparation and presentation of data and safety monitoring committee reports is desirable.

Should you have any questions regarding this position, please direct your inquiries about Johns
Hopkins inHealth/OHDSI to Dr. Aki Nishimura (aki.nishimura@jhu.edu) and about the Johns
Hopkins Biostatistics Center to Dr. Gayane Yenokyan, gyenoky1@jhu.edu or Ms. Jiangxia
Wang, jwang135@jhu.edu

To Apply
Submit cover letter and CV/resume to http://apply.interfolio.com/114436

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