

Geisinger

Bioinformatics Analyst II **Geisinger National Precision Health** North Bethesda/Rockville, MD 20852

As part of a major expansion of its innovative and patient-centered programs in genomics and precision health, Geisinger has launched **Geisinger National Precision Health**, a new national initiative based in the Washington, DC area. **Geisinger National** is accelerating implementation in genomics and data science and will develop novel partnerships to broaden Geisinger's impact in precision health at the national level.

To help us turn this vision into a reality, we are looking for engaged and creative **bioinformatics analysts** to join our team. An ideal applicant is someone with a strong academic and research background in genomics who seeks to apply his or her knowledge and experience to real-world applications in healthcare.

Responsibilities:

- Work dynamically with team members in Geisinger Research and Geisinger National in both research and clinical healthcare space, understanding the unique demands of each.
- Manage the Geisinger National analytical NGS research pipeline from raw sequencing data to genotypes, as well as iterative enhancements to each piece of the sequence analysis workflow (i.e. read alignment, variant calling and annotation, interpretation).
- Work with colleagues to design custom computational and statistical analysis strategies for their research questions, using both open source software and custom scripting.
- Help create and manage a very large and scalable database for storage and access to industry-standard NGS analysis data outputs. Work with members of Geisinger's phenomics core to integrate genomics datatypes with electronic health data.
- Leverage awareness of recent literature and tech developments in bioinformatics and genomics and implement new technological advancements as necessary.

Technical requirements:

- Master's degree in genomics, bioinformatics, computational biology, biostatistics or closely related field required.
- Minimum of three years research experience in human genetics and/or healthcare. In lieu of full time experience, internship and project work can be recognized.
- Programming experience using scripting languages, such as Python, and statistical tools, such as R, as well as fluency with Linux shell scripting and high-performance computing environments.
- Familiarity with publically available human genomic resources (NCBI, Ensembl, ClinVar, UCSC, open-source resources, etc.).
- Significant experience in hands-on analysis of next-generation sequencing data.
- Scientific proficiency, creativity, and demonstrated ability to collaborate effectively with others in a small team environment.

For more about Geisinger and Geisinger National, go to: www.geisinger.org/geisinger-national

To apply search for Job ID 54182 at <http://geisinger.org/careers-all>.

Please email skjoseph@geisinger.edu with any questions.