



Job Title: Genetic Epidemiologist, Principal Scientist

Department: Translational Research and Development

Reporting to: Associate Director, Bioinformatics

Location: Boston, MA

Rhythm Pharmaceuticals is seeking a talented Principal Scientist in Genetic Epidemiology to join the Translational Research and Development team. Rhythm is a precision therapy biotechnology company developing treatments for rare genetic disorders of obesity. The successful candidate will work with the Associate Director of Bioinformatics and the broader biomedical informatics and data sciences group to design, develop and implement pipelines for the analysis of large-scale clinical and genomic databases. This role will directly inform Rhythm's precision medicine strategy for identifying and treating individuals with rare genetic forms of severe obesity.

Primary Responsibilities:

- Contribute to the planning, design and execution of translational R&D objectives
- Manage and analyze large external and internal genomics databases, including data generated from SNP genotyping arrays and Next Generation Sequencing
- Build and maintain collaborative relationships with external partners
- Integrate data across multiple data sources, including publicly available data, internally generated sequencing data sets, and clinical electronic health records
- Generate standardized clinical data sets to be used for pooled analyses and/or meta- analyses of genotypes and phenotypes
- Conduct association analyses of single genetic variants, gene-based scores, and multi-gene composite genotypes
- Develop and implement pipelines to efficiently analyze associations across multiple phenotypes in multiple data sets (e.g., pheWAS, meta-analyses), using established and novel methods
- Provide programming support for all aspects of analytical pipeline development, including the manipulation of large data sets and statistical analyses

Required:

- PhD/ScD and 3+ years of work experience. Degree in Genetic Epidemiology, Statistical/Population Genetics, Computational Biology, Bioinformatics, Clinical Informatics, or related field
- Industry/Biotech experience preferred
- Prior clinical informatics and genetic epidemiology experience required
- Proven ability to design and execute on genetic epidemiology studies within large clinical databases; previous experience with rare disease preferred
- Expertise in R, Python, and other programming and scripting languages
- Up-to-date knowledge of current statistical methods, tools, and algorithms for analyzing population genetics data
- Ability to integrate information to interpret results from genetic and clinical studies
- Creative thinker, problem solver, innovator, good communicator and team player

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