



Immuneering

Seeking scientists who are passionate about developing & communicating new ways to extract biological insights from data, leading to better medicines for patients

This role involves working closely with leading pharmaceutical companies, helping to facilitate the development of new medicines for serious diseases including neurodegeneration and cancer. The ideal candidate would have experience in **two or more of the following areas**:

Neurodegeneration, CNS Diseases, and Neuroscience

Expertise in CNS diseases such as Alzheimer's, Parkinson's, Huntington's Disease, Multiple Sclerosis, ALS, or others, as well as the cellular and molecular mechanisms underlying neuronal development, function, and/or pathogenesis.

Computational Biology

Experience analyzing human data (including gene expression, SNPs, exome and whole genome sequencing, RNA-Seq, and proteomic data), using computational methods to help facilitate the development of new medicines for patients with a variety of serious diseases.

Next Generation Sequencing (NGS)

Expertise across the entire NGS pipeline including data QC, alignment and variant calling; pipeline implementation; and biological interpretation of the results. Experience applying approaches for CNV and structural variant / fusion detection. Ability to clearly communicate the process for each of these analyses, and weigh the applicability of differing tools and approaches.

Machine Learning / Statistics (with Biological Applications)

Expertise in machine learning and statistical modeling with experience applying these approaches to biological data. Ability to develop and apply cutting-edge methods, and ability to clearly communicate the biological context and implications of the analyses to scientists with a range of expertise.

Oncology

Expertise in disease biology and data analysis for cancer research.

Pathway Biology

Performing detailed mechanistic analysis of biological signaling pathways, using quantitative approaches.

Responsibilities

- Interpret data from a biological and clinical perspective
- Collaborate with colleagues to solve complex computational research problems
- Present scientific material (written and oral) to diverse audiences
- Analyze data such as gene expression, SNPs, NGS (RNA-Seq, exome, and whole genome sequencing), proteomic data, and clinical metadata
- Develop innovative analysis methods and algorithms to identify biological insights

Minimum Qualifications

- PhD in Computational Biology, Neuroscience, or a related field (i.e., Biology, Engineering, Computer Science, Mathematics, Bioinformatics, Statistics) or 5+ years of work experience at a leading computational biology focused institution
- Proven ability to work independently as well as contribute to larger initiatives
- Effective English communication skills (both written and oral)
- Proficient in at least one of R, Python, MATLAB, or a similar language
- An equivalent combination of education and experience may be accepted as a satisfactory substitute for the specific education and experience listed above

Preferred Qualifications (in addition to those noted above)

- Postdoctoral experience in a top lab focusing on computational biology and/or neuroscience
- Broad and deep understanding of genetics, proteomics, and/or genomics as documented by a strong publication record in high-impact journals
- Strong experience in scientific communication, excellent writing and presentation skills
- Demonstrated experience developing novel algorithms to address complex scientific problems
- Extensive experience working in R
- Hands-on experience with samtools, IGV, GATK, bwa or similar, RSEM or similar
- Experience applying machine learning approaches to analysis of heterogeneous clinical and pre-clinical data

Company Overview

Immuneering Corporation (<http://www.immuneering.com>) is a trusted advisor to the world's leading pharmaceutical companies, pioneering new analyses to identify biological insights that improve patients' lives. Immuneering's team of experts provides advanced data analysis services using state of the art technologies including proprietary algorithms. Headquartered in Cambridge, MA with a second office in NYC, Immuneering is a profitable and growing company with seven years of experience analyzing data sets including: gene expression (microarray), single-nucleotide polymorphism (SNP), proteomic, clinical metadata, and next-generation sequencing (NGS) including RNAseq, exome sequencing, and whole genome sequencing. Using these data sets, Immuneering captures difficult-to-find signals, generates biological hypotheses, and designs follow up studies, contributing to the development of medicines for patients with neurodegeneration and other CNS diseases, cancer, autoimmune disorders, and other serious diseases. We combine the fun, flexible, and collaborative setting of a startup with industry-level compensation/stability, all in a scientific environment most akin to a well-run academic lab. For more information, please visit www.immuneering.com.

If interested and qualified, please email resume to careers@immuneering.com. We are seeking full-time candidates, but may have part-time consulting roles available under the right circumstances (please specify in your email message).

Immuneering is committed to equal employment opportunity and non-discrimination for all employees and qualified applicants without regard to a person's race, color, gender, age, religion, national origin, ancestry, disability, veteran status, genetic information, sexual orientation or any characteristic protected under applicable law.

