Senior Bioinformatician

ScitoVation is the premier startup company for scientists who want to explore cutting-edge research and make a significant impact in the toxicology industry. You will be part of a highly-sought-after team of thought leaders and collaborators who are dedicated to finding innovative solutions to assess the safety of chemicals and products. Our team is driven by using the best science in chemical safety to improve risk assessment and decision making for clients. We are also at the forefront of developing next generation new approach methodologies (NAMs) and spearhead the efforts required to get key-stakeholder buy in ranging from regulatory bodies to pharma organizations. It's an exciting time to join our organization with many companies prioritizing Next Generation Risk Assessment and few that deliver on its requirements. With a vision of being THE trusted source in chemical safety & assessment – while elevating human and environmental health and well-being, do you have what it takes to join our team and make your mark?

Job Overview:

ScitoVation is a small research and development team with the mission of developing and implementing approaches to revolutionize the way we understand the impact of chemicals on our health. We collaborate with companies---both Fortune 500 and smaller groups--to help with decision making about what chemistries are appropriate for their products. While animal testing is the de facto standard for establishing chemical safety, our team is building computational and cell-based methods for safety assessment that are more economical and more relevant to human health.

We are seeking a highly motivated and experienced Senior Bioinformatician in the Computational Toxicology division (https://scitovation.com/services/technologies/toxicogenomic-or-pharmacogenomic-studies). The successful candidate will focus on the analysis of large Next-Generation Sequencing (NGS) datasets with in-depth knowledge of data-handling and sufficient knowledge of toxicogenomics. This position will provide many opportunities for professional development and the acquisition of cutting-edge skills in translational genomics research, research planning and strategy, and data analysis and interpretation.

Accountable for:

- Applying bioinformatics methods to process NGS data.
- Conducting various statistical analyses to discover relationships between genetic alterations and adverse health outcomes.
- Recording all analysis steps in an accurate, timely and clearly presented manner, and use this to prepare data summaries and reports as and when required.
- Optimizing bioinformatic analysis pipelines and developing new analytic algorithms.
- Performing literature reviews, prepares data visualization, and drafts scientific publications and grant proposals.
- Preparing conference and presenting abstracts, posters, and presentations.
- Supervising junior bioinformaticians.
- Providing scientific support to customers and research collaborators.
- Responsible for the preparation of genomics-based proposals and communicating with clients.
- Lead author and co-author of genomics publications.

Education and Experience:

- PhD with over 2 years or MSc with 4 years of experience in a relevant field (bioinformatics, applied mathematics, computational biology, molecular biology or a related discipline)
- Strong background with unix/linux tools and at least five years coding experience with Python, R or related data analysis languages. Please provide examples or links of applications or scripts that you have contributed to.
- Solid understanding of statistics, expertise in R Bioconductor package.
- Knowledge of NGS platforms is an asset, including datatype (FASTQ, BAM, VCF, MAF) and analysis tools.
- Experience in working with test-driven programming and version control (GitHub) is an asset.
- A proven track record in the analysis of large “omics” data sets (e.g. RNA-seq, whole genome/exome sequencing) and clinical NGS data sets. Please provide examples.
- Excellent publication track record with multiple first author paper in peer-reviewed international journals, Include DOIs.
- Experience in writing regulatory submission reports an added asset.

Competencies and Behaviors:

- Excellent written and verbal communication skills and proven leadership abilities.
- Inherently creative, able to bring fresh ideas to his/her own work and the work of others.
- Self-motivated and willing and able to take a primary leadership role in one or more projects
- Capable and comfortable with critically evaluating the ideas and work of themselves and of others.
- Effectively communicate and work with stakeholders with disparate career backgrounds and motivations.
- Detail conscious, organized, and excellent time management skills.
- Anticipate problems and implement mitigation strategies.
- Efficient, driven, willing to go the extra mile.
- Positive team player and collaborator.

Position Type/Expected Hours of Work:

This is a full-time position, and hours of work and days are generally Monday through Friday, 9:00 a.m. to 5 p.m. Work outside of normal hours will sometimes be required.

Travel:

Travel is not expected in this position.

Supervisory Responsibilities:

This role does not have supervisory responsibilities.

Other Duties:

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities and activities may change at any time with or without notice.
Only candidates selected for an interview will be contacted.