COMBATING AUTOIMMUNE DISEASE THROUGH DATA SCIENCE

Come join our team as a data scientist and improve human health

Autoimmune disease research needs people who understand data and statistics; people who can work with scientists to build an understanding of the complex operation of the human immune system, both when it is working right and when it is not. This understanding, of how a broken immune system manifest itself as disease, will help us find a cure to diseases such as type 1 diabetes, multiple sclerosis, and rheumatoid arthritis. We are looking for a talented person who can apply clear logical thinking and analysis to draw justifiable conclusions to carefully designed laboratory experiments.

Responsibilities:

As a member of the Bioinformatics Core team, you will apply the latest data science tools and techniques to analyze both public data sets and BRI’s autoimmune disease profiling experiments. You will present your findings to individuals and in larger group meetings and potentially co-author papers. You will participate in experimental design and power analyses, as well as detailing proposed experiments and analyses for inclusion in grant proposals.

Qualifications:

• Skilled in the application of statistics or biostatistics to scientific data. For example: analysis of complex multidimensional data such as next generation sequence data (NGS), flow cytometry, or cyTOF, translating scientific hypotheses into quantitative experiments, explaining the application of statistical tests to non-statisticians
• Experience in power analysis, statistical data modeling, data interpretation and visualization.
• Command of statistical tools, such as R, SAS, and Matlab
• Strong interpersonal, verbal and written communication skills

Preferred Skills:

• Background in Genetics, Biology, Biochemistry, or other physical science, or a familiarity with Immunology
• Familiarity with scripting or higher level programming languages (e.g. Shell, Python, Perl, Java)
• Experience with clustering, and machine learning techniques
• Experience consulting on or teaching statistics or biostatistics
• Working knowledge of MSSQL, MySQL, PostgreSQL, or NoSQL databases

Education:

A B.S., M.S., or Ph.D. in statistics, informatics, biology, genome sciences, or related discipline is required.

Benaroya Research Institute at Virginia Mason (BRI) is an internationally recognized medical research institute committed to finding a cure for autoimmune and immune-mediated diseases, through a combination of basic and translational research programs. This means you can contribute to scientific advances that have a direct impact on people afflicted with these diseases, including type 1 diabetes, rheumatoid arthritis, multiple sclerosis, allergies and asthma. BRI research leadership has identified
Bioinformatics as a key enabling technology, so there is broad and strong support for the analysis, and visualization of research data.

**Requisition #: 2016-1292**  
**Position:** Bioinformatician II  
**Department:** Bioinformatics Core, Full time

More information on BRI here: [https://www.benaroyaresearch.org](https://www.benaroyaresearch.org)  
More info on BRI bioinformatics here: [https://www.benaroyaresearch.org/what-is-bri/scientists-and-laboratories/core-labs/bioinformatics-core](https://www.benaroyaresearch.org/what-is-bri/scientists-and-laboratories/core-labs/bioinformatics-core)

To apply for this position please visit [https://careers-benaroyaresearch.icims.com/jobs/search](https://careers-benaroyaresearch.icims.com/jobs/search).

BRI is an equal opportunity employer. All qualified applicants will receive consideration for employment with regard to status as a protected veteran or a qualified individual with a disability, or other protected status, such as race, religion, color, national origin, sex, age.