

Biomedical Data Scientist/Bioinformatics

Overview:

The candidate will report to the Senior Director of Data Sciences and Bioinformatics to help build out a network of datasets to design and develop analytic risk-based algorithms in detecting women reproductive cancers.

Job Responsibilities:

1. Help build or institute a cross-functional platform to support multiple projects and large data sets
2. Establish processes for data gathering, storage, analysis; and blending both open-source, third party and proprietary computational algorithms.
3. Develop and implement bioinformatics initiatives utilizing all available resources to organize, manage and support all research activities.
4. Support bioinformatics and data analytics efforts
5. Create, curate, manipulate and perform analytics on connected data sets
6. Ability to write algorithms for risk-based assessment on newly developed clinical tests
7. Help oversee the computational infrastructure and controls the flow of samples and information for large-scale studies
8. Help develop and maintain applications systems for the management and analysis of data
9. Help develop novel informatics and computational tools and utilize emerging web technologies
10. Provide support to lead programs through analysis and integration of NGS data
11. Help with the development of new products from R&D through clinical validation
12. Serve as internal expert in quantitative data analysis and present scientific and technical data to both internal and external scientific colleagues in a clear and cohesive manner
13. Work side-by-side with multiple teams to resolve both technical issues and issues of policy to ensure a smooth information flow.

Requirements:

Knowledge, Skills, and Experience

1. Personable, outgoing professional with a strong molecular genetics background
2. Ability to think creatively and initiate new ideas or solutions to business issues.
3. Independence of thought and sound judgment relating to business needs.
4. Demonstrated commitment, self-motivation, and drive.
5. Possess strong interpersonal skills
6. Excellent written and verbal communication skills, with the ability to present at the highest level
7. Ability to engage, sustain and influence effective relationships at the management level
8. Self-starter, ability to work in a fast-past, competing deadline driven environment.
9. Experience working with AWS, cloud-bases systems is a big plus.
10. Experience with languages such as Python and R is required. Knowledge of others such as C++, Java, Perl, Shell, Docker is a bonus.

Education, Certification/Licensure, and/or Experience

1. Master's in a quantitative discipline or computer science or a related field with 3-5 years, or a Bachelor's and 5-7 years related experience.
2. 2+ year's experience programming in R and/or Python.
3. Strong foundation in statistical analysis and machine learning techniques
4. Facility with relational, columnar, and SQL/NoSQL database systems
5. Experience coping nimbly with imperfect data

Additional requirements

1. Proven experience in developing machine learning and deep learning systems to solve real world problems
2. Passionate about solving difficult problems creatively
3. An excellent communicator and listener who helps others understand both problems and solutions
4. Someone who knows how to tell a story with their data
5. A strong team player who enjoys helping their teammates succeed

Aspira Women's Health, Inc. (formerly known as, Vermillion inc., Nasdaq: VRML) is transforming women's health with the discovery, development, and commercialization of innovative testing options and bio-analytical solutions that help physicians assess risk, optimize patient management, and improve gynecologic health outcomes for women. ASPIRA is particularly focused on closing the ethnic disparity gap in ovarian cancer risk assessment and developing solutions for pelvic diseases such as pelvic mass risk assessment and endometriosis. OVA1® plus includes our FDA-cleared products, OVA1®, and OVERA® to detect risk of ovarian malignancy in women with adnexal masses. ASPIRA GenetiXTM testing offers both targeted and comprehensive genetic testing options with a gynecologic focus. With over 10 years of expertise in ovarian cancer risk assessment, ASPIRA is delivering a portfolio of pelvic mass products over a patient's lifetime with our cutting-edge research. The next generation of products in development are OVASightTM and EndoCheckTM. Visit our website for more information at www.aspirawh.com.