Signal Processing Data Scientist

Roswell Biotechnologies, Inc. is a fast-paced start-up developing revolutionary technology applying the principles of molecular electronics with advances in CMOS chips, nanoparticles, and biosensor technology to realize one of the biggest advancements of our generation: Precision Medicine *for the betterment of humanity*. Roswell's leadership has unmatched experience in developing high impact, high value, cutting-edge devices for Life Sciences, and successfully bringing them to global markets.

The Signal Processing Data Scientist will be responsible for supporting the R&D program needs for the analysis of sensor data produced by our experimental sensor devices. The Data Scientist will work as a key part of the interdisciplinary team developing the sensor platform and applications. Primary responsibilities will consist of the development of algorithms for processing 1-D sensor signal data— including noise removal, normalization, deconvolution, feature detection, feature extraction and feature identification—and applying such algorithms to large datasets. Primary responsibilities also include performing analysis of data from specific experimental campaigns, to answer questions posed in the experimental objectives.

Specific responsibilities include:

- Design and Test Algorithms for 1-D signal processing
- Implement Algorithms in the processing pipeline
- Apply signal processing pipeline to sensor data sets
- Perform exploratory and descriptive data analysis of sensor data
- Perform analysis of experimental data sets to test specific hypotheses
- Maintain the database of experimental data sets
- Create reports on data analysis for company presentations
- Assist with software development for local and cloud-based processing pipelines

The ideal candidate can thrive in a fast paced, dynamic environment, as part of a team of highly skilled, highly focused and highly motivated people who believe in changing the world by creating disruptive technology.

Qualifications:
MS or PhD in a relevant field, such as Statistics, Computer Science, Applied Math, Electrical Engineering, or Experimental Physics. 0 -2+ years experience working in signal processing or data analysis. Extensive experience with 1-D signal processing algorithms. Extensive experience with statistical analysis of data, exploratory data analysis, descriptive statistics, and data mining. Expertise with one or more comprehensive data analysis environments, such as MatLab, Mathematica, R, or SAS. The following are also desirable: experience with signal processing of sensor data; experience with cloud computing; programming in languages such as Python, Perl, Java, C/C++, SQL; experience with LabVIEW programming and data acquisition from electronic measurement equipment.

Requirements:
- Passion for learning and collaborating in a fast-paced, dynamic biotech startup environment
- Fails fast; comes up with new and unique ideas, and injects the learning in next experiments and iterations
- Attention to detail
- Is accountable and delivers on commitments
- Flexibility in work hours

U.S. Citizens, Green Card Holders, and those authorized to work in the U.S. will be considered. The position is located in the Sorrento Valley area of San Diego.

To apply, please send your cover letter and CV to: hr@roswellbiotech.com.