The Biodesign Center for Personal Diagnostics (CPD) in the Biodesign Institute within Arizona State University’s Knowledge Enterprise is seeking an experienced Bioinformatics Assistant Research Scientist who will provide bioinformatics expertise to our highly diverse and active research groups in production and analysis of genome-scale data to gain insights on human physiology and diseases.

Our center is specialized in biomarker research aided by sophisticated genomics and proteomics applications, and equipped with fully automated robotic systems for gene cloning, microarray production/processing, as well as next-generation DNA sequencers. We also have a strong expertise in developing high-throughput assays, biomarker panels/signatures, and predictive modeling for various health-related applications. In addition, we are operating web applications for public data and resource repositories, such as the plasmid repository DNASU (dnasu.org/DNASU/Home.do) and the BioSpecimen Commons (https://biospecimencommons.org/). To operate and support the high-paced research activities, we are working closely with the Genomics and Bioinformatics Core at ASU and provide bioinformatics supports to both on- or off-campus researchers in a broad aspects of research projects, including genomics, proteomics, phylogenetics, machine-learning, and statistics.

**Essential Duties**

- Participate mainly in a federal government-funded multi-institutional multi-omics project aiming to develop epigenetic signatures and predictive models for detecting exposure to various types of hazardous agents by using bioinformatics, statistics, and machine-learning approaches
- Participate in analysis of systems-level data such as next-generation sequencing and single-cell sequencing for basic and translational research projects at CPD,
- Participate in writing reports, manuscripts, and grant proposals
- Support and collaborate with both internal and external researchers
- Develop new statistical/computational methods in biomarker discovery and validation studies
- Participate in journal clubs and working group meetings.
- Other duties as assigned.

**Minimum Qualifications**
• PhD in science or related and 3 years of research experience. Supports research projects and translation and basic science, experimental design, data analysis, and instrumentation.

• You must be able to work in the United States without ASU sponsorship.

**Desired Qualifications**

- PhD degree in bioinformatics, computational biology, biostatistics, genomics, molecular biology or related fields, and 3 years or more of additional academic/industrial research experience
- Hands-on research experience in analyzing high-content biological data (e.g. next-generation sequencing or high-throughput screening data), preferentially epigenetics data
- Research experience in biomarker discovery, statistical modeling, and/or machine-learning
- Proficiency in scientific programming/scripting (e.g., Python or Java), bioinformatics/biostatistics packages (e.g., R/Bioconductor and Biopython), and SQL database
- Knowledge on biological databases (e.g. gene annotations, pathways, and interactomes) and genomic/proteomic data resources (e.g. NCBI, Ensembl, COSMIC, and UniProt)
- An efficient team player with strong communication, presentation, and interpersonal skills
- Detail oriented, flexible, self-motivated, excellent troubleshooting skills
- Experience in writing scientific documents (e.g. reports, manuscripts and grant proposals)
- Wet lab experience in molecular and cellular biology
- Experience in the development of scientific software and databases
- Experience in high-content data visualization/analysis (e.g. network analysis)
- Excellent written and verbal communication skills; able to articulate compelling and impactful science
- Adept at working in interdisciplinary scientific teams

**Salary:** Depends on experience.
**Close date:** 5/31/2019. Please make sure to include “Application for Bioinformatics Assistant Research Scientist_SP1239" in the email subject line. Initial review of applications will begin on May 10, 2019; as long as the position is not filled; review will continue every week thereafter until the search is closed.

**Instructions to Apply:**

Please submit to okedhiring@asu.edu and copy Jin.Park.1@asu.edu the following materials with the subject line: “Application for Bioinformatics Assistant Research Scientist_SP1239”:

- A cover letter specifying relevant qualifications and training,
- Resume or curriculum vitae,
- Contact information for at least three professional references.