Data Architect
The University of South Florida Tampa Campus

Organizational Summary: The Health Informatics Institute (HII) is comprised of approximately 150 members consisting of biostatisticians and bioinformaticians; epidemiologists; software, data, and systems engineers; solution and data architects; laboratory and clinical research administrators; and administrative staff. Established in 2004 as the Pediatric Epidemiology center, the annual budget of the institute currently exceeds $50 million, primarily in NIH funding. Faculty areas of expertise include biostatistics applied to pre-clinical, clinical, observational, and population health research; biomedical and clinical informatics; and statistical genetics and genomics. Members are engaged in research focused on the prevention of diabetes and other autoimmune diseases, cancer prevention and control, genetic disorders, and an expanding list of rare diseases. The primary mission of the HII is to establish and maintain expertise in biomedical science, statistics, clinical trial and study design and coordination, software and data engineering, big data and high performance computing, and integrative bioinformatics. This expertise is leveraged to act as an integrative force in bringing together clinical and biological data with results from diverse fields, applications, and enterprises. In doing so, we endeavor to support the investigation of disease etiology, prevention, and treatment in a comprehensive and transdisciplinary fashion. Ongoing functions of the HII in support of this mission include the following: (a) to coordinate and conduct clinical trials and health services research, including protocol development, oversight and monitoring of clinical centers, and interaction with sponsors; (b) to design, develop, and maintain applications, complex databases (structured and unstructured), analysis data warehouses, and data governance policies that accommodate the full data lifecycle needs of clinical research; (c) to provide and maintain comprehensive and customized reporting services for clinical operations; (d) to provide scientific guidance to investigators on research study design, statistical methodology, and data management, data analysis, and data interpretation; (e) to collaborate with research laboratories and analytical partners in the design, development, evaluation, implementation, and maintenance of analysis software pipelines; and (f) to offer a suite of data sharing platforms and interfaces.

Position Summary: The Data Architect will interact with a diverse staff of scientists, statisticians, engineers, and administrators in the research, design, implementation, maintenance, and documentation of the data architecture supporting research efforts at the HII. As a part of the Data Engineering team, the Data Architect’s efforts will span the data lifecycle with an emphasis on warehousing (ETL), reporting, cleaning, and sharing of data. The Data Architect will utilize their expertise to manage data from a variety of sources including relational and unstructured/NoSQL databases and satisfy stakeholders from statisticians and scientists to clinical operations staff, sponsors, and regulatory agencies. Particular focus will be given to the implementation and maintenance of bioinformatics analysis software pipelines in close coordination with faculty bioinformaticists, the software engineering team, and external analytical partners.

Responsibilities: Interact directly with faculty and operations staff to learn study objectives and develop project requirements. Interface effectively with laboratories, analytical partners, regulatory agencies, etc. in execution of projects. Work with systems and solutions architects to coordinate development efforts throughout the data lifecycle. Efficiently coordinate activities with other team members. Work
with director of engineering to provide technical guidance and implement strategic directives. Participate in the strategic planning of future technology needs to accommodate the lifetime span of grants. Take a leading role in the design, development, evaluation, and implementation of analysis software pipelines for conducting genomics, transcriptomics, microbiomics, metabolomics, proteomics, etc. Design and guide development of complex systems for ensuring data integrity, in-house data monitoring and study status reports, and clinical trial database systems. Lead the establishment of policies and procedures related to data governance, effectively communicate their purpose, and promote adherence throughout the Data Engineering team and institute at large. Proactively inform management of the status of deliverables, timelines, accomplishments, and issues experienced and remediated on projects. Assist in new data acquisition and exploration. Assist in the design of applications and databases developed by the software engineering team. Apply best practices to the design, development, implementation, and maintenance of programs. Comply with and provide input in the creation of standard operating procedures. Take initiative to provide expertise and assistance when needed. Develop and maintain domain knowledge of complex and expansive enterprise applications. Develop and maintain the requisite expertise for ongoing and future institutional data architecture demands. Research new technologies and design approaches to enhance the data infrastructure of the institute. Act as a mentor and promote the dissemination of knowledge throughout the Data Engineering team.

Minimum Qualifications: This position requires a Bachelor's degree in information technology or a related field, with six years of experience in related positions; or a Master's degree in directly related fields with four years of experience. Appropriate college coursework, technical training, or industry certifications may substitute at an equivalent rate for the required experience. Industry certification with directly related experience may be substituted for the degree requirements on a year for year basis.

Preferred Qualifications: Bachelor's degree in Computer Science, Information Systems, or equivalent or a Master's Degree or additional training. 7+ years of experience in a software development setting with at least 5 years in a Senior Development or Project Management position. 4+ years experience as a developer of software in a clinical research environment.

To view complete position summary and application procedures please visit: http://www.usf.edu/about-usf/work-at-usf.aspx and search for Administration posting number 5049.

This position is subject to a criminal background check. Position is open until filled.

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