Big Data Engineer (UCP 7 or 9)
Operating Systems Programmer/Analyst 2 (UCP 7) or
Operating Systems Programmer/ Analyst 3 (UCP 9)

Job Summary

The University of Connecticut (UConn), Analytics and Information Management Solutions (AIMS) group (http://aims.uconn.edu) is seeking to hire a **Big Data Engineer**. This position will provide technical support on our Health IT initiatives, where the individual will lead the innovative design, development, and implementation (DDI) of a Big Data/Hadoop/SQL technical architecture supporting cross-functional, multi-platform applications for innovative analytics and information management solutions. This position will provide database, dataflow, and transformation programming along with quality improvements, using various models and methods to measure and analyze clinical, claims, and administrative data.

UConn AIMS works with various organizations, leveraging leading-edge technologies to curate, process, and enhance healthcare data, to fuel analytics that supports state-wide healthcare initiatives.

Job Duties & Responsibilities

1. Design and develop big data concepts, RDBMS (SQL Server), Hadoop ecosystem components, and complementary technologies such as HDFS, Hive, Spark, HBase, Oozie, and Kafka; as well as cloud technologies such as block storage, object storage, computational infrastructure services, and higher-level database services.
2. Design and develop data flow and transformation processes pipelines for ingestion and analysis using modern toolsets such as Spark on Scala, Kafka, Flume, Sqoop, NIFI, SSIS, Data Factory, and/or others.
3. Design data capture, security, processing, organizing, and provisioning structures to ingest various healthcare data sets to enable data enhancement, enrichment, and exploration/mining.
4. Design and develop upgrades to existing ETL processes including SSIS, SQL, and Pentaho jobs with automation as a focus.
5. Design and develop reports and dashboards with SSRS, Tableau, and other visualization tools.
6. Work with full cloud environments such as Azure, including SaaS and IaaS.
7. Work with vendors’ technical personnel in evaluating, planning for, and installing software products.
8. Investigate performance issues and resolves performance issues.
9. Conduct research on emerging technologies, and recommend technologies that will increase operational efficiency, infrastructure flexibility, and operational stability.
10. Self-motivated/guided and able to work in a startup environment, taking on multiple roles when necessary, and not afraid to ask questions.

Minimum Qualifications

1. Bachelor’s degree (or equivalent) in Software Engineering, Computer Science, Information Systems, or a related Science, Technology, Engineering and Mathematics (STEM) discipline.
2. Minimum of two (2) years’ experience in Structured, Semi-Structured and Un-structured data with progressive responsibilities in data architecture.
3. Minimum of two (2) years’ experience architecting, designing, and developing Big Data frameworks and components, such as SQL Server, SSIS, Hadoop, Spark, Storm, HBase, HDFS, NIFI, Pig, Hive, Scala, MapReduce, Yarn, Kafka, PyScripts, Unix Shell scripts, Hadoop streaming, Oozie, Sqoop, and/or Ranger.

4. Experience with various forms of data design, such as OLTP, OLAP, ODS, Normalization, and data stores (Star and Snow Flake schemas)

5. Experience with Agile SDLC (SCRUM)

6. Experience with reporting and visualization tools such as Tableau, SSRS, and similar tools.

7. Knowledge of Big Data security components, such as data encryption, de-identification, masking, and data use entitlements.

8. Strong verbal and written communications skills, collaboration, and desire to learn.

**Preferred Qualifications**

1. Experience implementing Big Data/Hadoop in a cloud-based infrastructure as a service (IaaS).

2. Experience with Azure IaaS, including readiness, provisioning, security, and governance.

3. Experience with Informatica Big Data Management (BDM) tools.

4. Exposure to microservices and SOA.

5. Experience with Big Data security components, such as data encryption, de-identification, masking, and data use entitlements.

6. Experience in any of the following programming languages: Scala, Python, Java, C#, or R and advanced knowledge in Scala/Python/Java/ C# frameworks.

7. Experience configuring visualization tools, such as Tableau, with Big Data/Hadoop cloud environment.

8. Experience in Metadata management, data lineage, data governance, especially as related to Big Data.

9. Experience with various healthcare formats and reference data sets, such as, HL7, claims, eCQMs, drug/pharmacy, clinical notes, lab results, and administrative.

**APPOINTMENT TERMS:** This is a full-time, grant-funded position that is subject to annual renewal depending on available funding and job performance. The typical work schedule is Monday – Friday, 8:30 am – 4:30 pm. Salary will be commensurate on the successful candidate’s background and experience. Work location is at the Hartford campus. Salary and position level will be commensurate with experience and training.

**TO APPLY:** To apply, please submit an online application that includes a cover letter, a resume and contact information for three (3) professional references, online via UConn Jobs, Staff Positions (www.jobs.uconn.edu). Evaluation of applications will begin immediately. Employment of the successful candidate is contingent upon the successful completion of a pre-employment criminal background check. (Search # 2019002)

This job posting is scheduled to be removed at 11:59 p.m. Eastern time on August 1, 2018.

All employees are subject to adherence to the State Code of Ethics which may be found at http://www.ct.gov/ethics/site/default.asp.
The University of Connecticut is committed to building and supporting a multicultural and diverse community of students, faculty and staff. The diversity of students, faculty and staff continues to increase, as does the number of honors students, valedictorians and salutatorians who consistently make UConn their top choice. More than 100 research centers and institutes serve the University’s teaching, research, diversity, and outreach missions, leading to UConn’s ranking as one of the nation’s top research universities. UConn’s faculty and staff are the critical link to fostering and expanding our vibrant, multicultural and diverse University community. As an Affirmative Action/Equal Employment Opportunity employer, UConn encourages applications from women, veterans, people with disabilities and members of traditionally underrepresented populations.