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Position Summary

Enterprise Programmer Analyst I – Data Engineer

Purpose

Develop and implement solutions that prepare data for analytical and operational uses to support diverse stakeholder needs throughout the CIBMTR. Implement data-centric software solutions to ingest, integrate, and aggregate data from disparate sources. Develop and configure processes and tools for stakeholders to share, visualize and analyze data.

Primary Functions

- Collaborate with data subject matter experts and technical professionals in small to mid-size projects as a key member of multidisciplinary project team or in a product scrum team in support of data centric solutions.
- Work alongside subject matter experts to acquire deep understanding of data domains and data use to support data analysis and use.
- Work with architects, Sr. Data Engineers and database analysts to organize and structure data for analytical or operational uses.
- Analyze requirements, build, test, implement and maintain ETL, data pipelines and components that ingest, integrate, and aggregate data from disparate sources, domains and data models, including—relational databases, data warehouse, data mart and data lake.
- Build, test and maintain data set processes, including stored procedures, automated quality validation checks, and access and security components
- Works with stakeholders to analyze, design, develop and extract moderately data sets to promote high availability of self-service data analytics applications
- Conduct data profiling and recommend ways to improve data quality, reliability, and efficiency
- Prepare and maintain system documentation for your work that aligns with internal SOP's, best practice and regulatory compliance.
- Provides technical support for application software.

Knowledge – Skills – Abilities

Knowledge of computers, electronics, digital media, databases, applications, software development, risk management, and information security. The candidate will have the following qualifications:

- Strong data profiling skills along with uncompromising commitment to preserve data quality and integrity
- Strong knowledge of data modeling principals and data standards
- Knowledge of data warehouse design and development
- Proficient with SQL or PL/SQL
- Basic knowledge of R or SAS
- Knowledge of AGILE Scrum preferred



- Support, systems analysis, troubleshooting, problem solving, and listening skills.
- Basic knowledge of data interoperability and data transfer standards
- Knowledge of C#, .NET or Java is preferred
- Proficient with one or more scripting languages: Perl, Python, and/or Javascript etc

Organizational Structure

Building: Clinical Cancer Center

Department: Medicine

Division: CIBMTR

Reports to (Title): IT Director

Direct Reports (Titles): NA

Collaborates with (Titles): CIT managers and staff, CIBMTR Scientific Directors, Clinical Research Coordinators, Statisticians, and any other roles as defined.

Specifications

Appropriate education and/or experience may be substituted on equivalent basis

Minimum Required Education: Bachelor's Degree

Minimum Required Experience: 4 years

Preferred Education: Bachelor's Degree

Preferred Experience: 5 years

Field: Computer Science, Technical Discipline

Certification: None

Classification

Grade Name 17

Full-Time Equivalent 1.0

FLSA Status Exempt

FLSA Test Computer Professional

Workweek Full-time role with expectations for coverage during core business hours and flexibility required as necessary to accommodate business needs.

Job ID 300

Job Name

Position Category Information Services

Job Scope

Complexity – requires sound judgment; leads difficult and involved planning of initiatives

Impact – errors may result in extensive damage; constant attention to accuracy required

Autonomy – individual responsible for completion of work; seeks supervision as appropriate

Communication – involved in frequent conflict resolution; communicates with senior leaders

Responsibility – influences others

Confidentiality – confidential information used frequently to make decisions

Leadership – prioritizes work of others or may provide supervision

**Physical Requirements**

Work requires occasionally lifting moderate weight materials, standing, or walking continuously.

Risk Potential

Infrequent exposure to hazards such as dust, fumes, or extreme temperatures, airborne or blood borne pathogens, extreme temperatures, or allergens.

Sensory Acuity

Ability to detect and translate speech or other communication required. May occasionally require the ability to distinguish colors and perceive relative distances between objects.

Work Environment

Occasional exposure to dust, noise, temperature changes, or contact with water or other liquids. Work is performed in an environmentally controlled environment.

Performance Dimensions**Collegiality**

Exhibit confidentiality, honesty, and actions that build trust and strengthen relationships. Listen to others and effectively communicate in a clear and concise manner through written and verbal communication.

Demonstrate respect and commitment to the values of diversity and equity; seek out and incorporate diverse perspectives into decision making.

Excellence and Creativity

Exhibit initiative and ingenuity by taking ownership of tasks to proactively improve services, avoid problems, or develop opportunities. Generate novel and valuable ideas to impact institutional missions.

Identify and implement new methods to increase efficiency and quality.

Education and Development

Displays an ongoing commitment to continuous learning and self-improvement in one's area of responsibility.

Actively seek out mentorship and learning opportunities that can be applied to current and future work activities. Develop and maintain professional affiliations. Participate in design, development, and/or evaluation of instructional materials, methods, courses, or programs.

Agility and Judgment

Remain flexible and versatile in rapidly changing environment and adapt quickly to changing circumstances.

Change behavioral style or method of approach when necessary to achieve a goal. Make timely and sound decisions based on analysis of information, experience, and logic. Show reliability and accountability in the successful completion of all work.

Stewardship and Institutional Citizenship

Support transformational change to achieve institutional vision and strategies. Be an active and thoughtful participant in institutional initiatives, meetings, and committee work. Conserve resources and use in an efficient and cost effective manner across all institutional missions. Look for ways to improve and promote quality within area of influence.



Disclaimers

Background Check

Employment in this position may be contingent upon successfully completing a background and criminal history check, caregiver background check in accordance with the Wisconsin Caregiver Background Check Law, physical examination, and / or driving record check.

Equal Opportunity Employer

The Medical College of Wisconsin is an affirmative action / equal opportunity employer and does not discriminate in hiring or employment on the basis of age, sex, race, color, religion, national origin, veteran status, disability, or sexual orientation.

Diversity and Inclusion

The Medical College of Wisconsin defines diversity as a commitment to recognizing and appreciating the variety of individual differences in an environment that promotes and celebrates individual and collective achievement. The diversity of MCW continues to be an important source of innovative ideas and creative accomplishments.

Confidentiality

Employees that have access to MCW, affiliate, subsidiary, or student data or Protected Health Information (PI), or research protected information are obligated to protect the confidentiality and proper use and access of this information in order to prevent loss, misuse, unauthorized access, unnecessary identification, or security breaches.

Completeness

This job description is not an employment contract and the Medical College of Wisconsin may modify this document at any time. This document is intended to indicate the types of tasks and levels of skill, effort, and responsibility required by positions assigned this title. This information shall not be construed as a declaration of the specific duties and responsibilities of any particular position. It is not intended to limit or modify the right of any supervisor to assign, direct, and control the work of direct reports. The functions described are not to be interpreted as exclusive or all-inclusive of the various functions performed.

Effective Date: