

UW HEALTH JOB DESCRIPTION

DataOps Engineer III

Job Code: 340016

FLSA Status: Exempt

Mgt. Approval: J. Long

Date: February 2022

Department: Enterprise Analytics

HR Approval: N. Lazaro

Date: February 2022

JOB SUMMARY

The DataOps Engineer III sits at the intersection of data warehousing, data engineering and information delivery. The DataOps Engineer III is responsible for the administration of the analytics platforms across the UW Health data ecosystem, leveraging a variety of DataOps, data warehousing and system administration methodologies and disciplines. The DataOps Engineer III implements and operates the analytics platform ecosystem including cloud-based technologies such as Azure and Databricks, industry leading business intelligence and visualization products, and industry leading analytics infrastructure platforms including Informatica and the Epic Cogito suite.

The DataOps Engineer III works closely with data scientists, machine learning engineers, analytic consultants, and other colleagues to:

- Deliver actionable analytics and insights throughout the health system, resulting in improved outcomes and value
- Promote and drive adoption of self-service information delivery capabilities
- Curate datamarts and other data assets that drive improved efficiency and ease of analysis
- Deliver leading-edge data science and machine learning solutions
- Ensure compliance with applicable data security and privacy policies, procedures, guidelines, and agreements

The platforms administered (cloud-based or on-premise) and related projects will be of significant complexity and risk. The individual will implement and operate high reliability, highly automated analytic platforms across the data ecosystem which includes:

- Ensuring that the platforms are performing to full potential to guarantee the availability and performance of analytics solutions
- Identifying and executing opportunities for improvement and advancement of the analytic platforms
- Maintaining each platform on current release version and perform upgrades as appropriate
- Regularly reviewing platform configurations and controls for data access, data security, data sensitivity and data confidentiality
- Facilitating the SDLC process across the various analytic tools and environments which includes the release of data pipelines and analytic solutions into production

The DataOps Engineer III possesses advanced technical DataOps engineering expertise. The DataOps Engineer III executes differentiated or expert solutions in a known or ambiguous body of work. The DataOps Engineer III defines the technical work in one or more areas of expertise. The DataOps Engineer III leads team level projects & initiatives to drive value delivered to the organization. The DataOps Engineer III improves processes and methodologies used across multiple platforms and solutions.

The DataOps Engineer III plays a leadership role within Enterprise Analytics, leading improvement teams to enhance performance of the department, and serves as a mentor to other DataOps Engineers and other colleagues. The DataOps Engineer III develops trusted advisor relationships with a variety of colleagues and stakeholders across the enterprise.

The DataOps Engineer III works closely with employees and leaders across UW Health, the UW School of Medicine and Public Health, and our partners.

MAJOR RESPONSIBILITIES

Deliver Analytic Solutions

- Manage initiatives & projects of significant complexity and risk. Provide leadership to assigned delivery teams. Provide input to prioritized roadmaps, develop work estimates, and ensure successful delivery to support strategic planning and initiatives, improve organizational performance, and advance progress towards UW Health goals.
 - Manage and automate end-to-end the provision of environments, data on data platforms, deployment, testing, release, security and monitoring processes.
 - Lead implementations, upgrades, updates, patches, enhancements, and customizations of the analytics systems in the data ecosystem.
 - Prescribe and optimize the use of cloud platforms and technologies, especially Azure and Databricks. Improve the performance, security and organization of data assets.
 - Identify and recommend hardware, software, and service upgrades where needed.
 - Ensure backups are being performed on the established frequency.
 - Monitor and improve the performance, efficiency, effectiveness, and orchestration of our analytics systems across the data ecosystem.
 - Provision access to analytics systems and data assets according to applicable policies and procedures.
 - Lead the creation of Service Level Agreements with customers.
 - Maintain an awareness and make recommendations regarding marketplace changes regarding our analytic systems.
 - Lead the creation of standards, procedures, design patterns and technical frameworks.
 - Adhere to the Software Development Life Cycle framework and governance processes.
 - Independently (with minimal oversight) develop and maintain trusted advisor relationships with business, clinical, and operations leaders at the senior leadership level and with external partners, that include guidance for optimizing use of analytic capabilities and deliverables, and prioritization based on strategic vision.
 - Participate in an on-call rotation.

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Improve Processes and Standards

- Lead improvement in agility within UW Health IS
- Lead improvement teams and projects within Enterprise Analytics and IS.
- Lead the development and delivery of training relevant to your area of expertise.

Effective Team Member

- Formally teach and mentor IS staff in areas of expertise

Leadership

- Serve, where applicable, as the business relationship manager, delivery team leader, product manager or owner, or program leader for assigned areas and initiatives.
- Hold department-level responsibilities and lead large-scale projects

Technical Leadership

- Function as the department-level expert for in DataOps engineering. Review the technical work of others.
- Lead the creation of design patterns, standards, templates, procedures, and technical frameworks for the department. Lead technical reviews.
- Curate and optimize the analytics asset repository and systems including leading retirement projects of out-of-date assets and systems, exploring new analytics technologies etc. to achieve efficiency and increase value delivered.

ALL DUTIES AND REQUIREMENTS MUST BE PERFORMED CONSISTENT WITH THE UW HEALTH PERFORMANCE STANDARDS.

JOB REQUIREMENTS

Education	Minimum	Bachelor's Degree in Healthcare, Information Systems, Computer Science, Engineering, Business, Data Science or related field. (Four years relevant work experience may be considered in lieu of educational requirement)
	Preferred	Master's Degree in Healthcare, Information Systems, Computer Science, Engineering, Business, Data Science or related field.
Work Experience	Minimum	<ul style="list-style-type: none"> • Demonstrated success configuring and managing analytics platforms such as Cogito, Azure, Databricks, data integration (ETL/ELT), and business intelligence platforms (Qlik, Business Objects) • Demonstrated success providing system administration, operational support, and problem resolution for a large complex environment • Demonstrated success monitoring and improving the performance, availability, efficiency, effectiveness, and orchestration of analytics systems • Demonstrated success leading and coordinating cross-functional delivery teams to achieve desired outcomes within Enterprise Analytics • Demonstrated success prescribing technical designs and solutions when approached with an ambiguous problem or need • Demonstrated success teaching and mentoring by contributing experience and insight to the team
	Preferred	<ul style="list-style-type: none"> • Five (5) years combined experience as a Systems/Server Administrator, Platform Administrator, Data Warehouse Administrator, Database Administrator (DBA), Epic Clarity/Caboodle Administrator, or Technical Project Manager. • Three (3) years of experience with Epic Cogito technologies (e.g. Epic Clarity, Epic Caboodle) or other data warehousing and data transformation technologies (e.g. Azure, Databricks, Informatica, etc).
Licenses & Certifications	Minimum	<ul style="list-style-type: none"> • None
	Preferred	<ul style="list-style-type: none"> • Epic certifications in Cogito or other subject area • Relevant certifications related to data warehousing concepts and technologies, ETL development, or other pertinent areas of analytics. • Relevant certifications to agile methodologies, ITIL, process improvement, lean management, or other related activities.
Required Skills, Knowledge, and Abilities		<u>Information Services (IS) Core Competencies:</u> Intermediate proficiency in the following: <ul style="list-style-type: none"> • leadership competencies including leads with integrity, maintains strategic orientation, demonstrates business & financial acumen, champions innovation, manages execution and leads & develops people. • technical leadership of applicable products or platforms • leading without direct authority

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- leading highly empowered, self-directed teams including cross-functional teams
- communication
- being an effective team member
- critical thinking
- applying lean management tools
- applying agile methodologies
- mentoring and teaching

Position Specific Competencies:

Advanced proficiency in at least 2 and intermediate proficiency in at least 4 competencies such as:

- Analytics Architecture
- Data Modeling
- Data Querying
- Data to Information to Action
- Data Warehouse Administration
- Enterprise Automation
- Enterprise Security, Privacy, & Info Sharing
- Metadata
- Platform Administration
- Software Development Lifecycle (SDLC)
- Testing / Software Testing / QA
- Web Services

Other Required Skills, Knowledge, Abilities:

Delivering Analytics Solutions

- Demonstrated ability to initiate and follow through on very complex projects, manage multiple tasks, and meet deadlines
- Demonstrates professional maturity surrounding data access, data security, data sensitivity and data confidentiality

AGE SPECIFIC COMPETENCY (Clinical jobs only)

Identify age-specific competencies for direct and indirect patient care providers who regularly assess, manage and treat patients.

Instructions: Indicate the age groups of patients served either by direct or indirect patient care by checking the appropriate boxes below. Next,

Infants (Birth – 11 months)	Adolescent (13 – 19 years)
Toddlers (1 – 3 years)	Young Adult (20 – 40 years)
Preschool (4 – 5 years)	Middle Adult (41 – 65 years)
School Age (6 – 12 years)	Older Adult (Over 65 years)

JOB FUNCTIONS

Review the employee's job description and identify each essential function that is performed differently based on the age group of the patient.

PHYSICAL REQUIREMENTS

Indicate the appropriate physical requirements of this job in the course of a shift. *Note: reasonable accommodations may be made available for individuals with disabilities to perform the essential functions of this position.*

Physical Demand Level	Occasional Up to 33% of the time	Frequent 34%-66% of the time	Constant 67%-100% of the time
X Sedentary: Ability to lift up to 10 pounds maximum and occasionally lifting and/or carrying such articles as dockets, ledgers and small tools. Although a sedentary job is defined as one, which involves sitting, a certain amount of walking and standing is often necessary in carrying out job duties. Jobs are sedentary if walking and standing are required only occasionally and other sedentary criteria are met.	Up to 10#	Negligible	Negligible

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	Light: Ability to lift up to 20 pounds maximum with frequent lifting and/or carrying of objects weighing up to 10 pounds. Even though the weight lifted may only be a negligible amount, a job is in this category when it requires walking or standing to a significant degree.	Up to 20#	Up to 10# or requires significant walking or standing, or requires pushing/pulling of arm/leg controls	Negligible or constant push/pull of items of negligible weight
	Medium: Ability to lift up to 50 pounds maximum with frequent lifting/and or carrying objects weighing up to 25 pounds.	20-50#	10-25#	Negligible-10#
	Heavy: Ability to lift up to 100 pounds maximum with frequent lifting and/or carrying objects weighing up to 50 pounds.	50-100#	25-50#	10-20#
	Very Heavy: Ability to lift over 100 pounds with frequent lifting and/or carrying objects weighing over 50 pounds.	Over 100#	Over 50#	Over 20#
List any other physical requirements or bona fide occupational qualifications:				

Note: The purpose of this document is to describe the general nature and level of work performed by personnel so classified; it is not intended to serve as an inclusive list of all responsibilities associated with this position.