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Informatician - Knowledge Management

Location:
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Website: Partners Corporate Careers   (http://www.partners.org/Careers/Corporate-Careers/Default.aspx)

Job ID: **2215529**

Position Overview
The Knowledge Management and Clinical Decision Support group (KM) is responsible for the management of clinical knowledge bases that are building blocks of multiple software applications and systems. The knowledge content includes dictionaries, ontologies, forms, templates, protocols, decision rules, and reference materials. The KM Platform Informatician (PI) assists and coordinates the design, planning, implementation, and evaluation of the overall integrated platform that supports all core KM functions and activities, including informatics oversight for the development, implementation, and maintenance of the software components and knowledge engineering processes. The software components include repositories, tools (editors), portals, and configurable processes for collaborative and distributed knowledge authoring, review, publication, and maintenance. The integrated platform includes software components developed internally and/or licensed from external sources. The knowledge engineering processes include systematic content lifecycle activities, such as authoring, review, vetting, deployment, and continuous maintenance.

The PI works closely with various PHS groups to ensure proper integration of the knowledge bases with consuming services and clinical systems. The PI is responsible for effectively communicating the platform features and architecture to multiple technical and non-technical audiences. The PI is also involved with the planning and coordination of the required software development and implementation efforts. The PI is also expected to contribute to informatics R&D projects. The CI is supervised by the KM Team Lead 2 – Medication Informatician.

Job Responsibilities
1. Define and document the overall KM informatics architecture, models, and technology platform that supports KM goals and requirements
2. Design and implement integrated solutions that support all core KM activities, engaging various teams to understand content use and collaborate on content delivery solutions, including process and software development activities
3. Lead technical and informatics review sessions to ensure complete and high-quality functional requirements, component designs, and models, ensuring compatibility with existing semantic interoperability standards
4. Assist with the implementation, testing, and evaluation of integrated software components and lifecycle processes, including the development of high-quality technical and end-user documentation
5. Coordinate the design and implementation of migration, conversion, and/or integration strategies for new and existing knowledge content and databases
6. Assist with the definition and implementation of performance and reliability metrics, including their application for continuous tuning and optimization of deployment environments
7. Train and support knowledge engineers, clinical analysts, and software engineers involved with the configuration and development of services and applications that interact with the KM platform

Skills/Abilities/Competencies
Required:
- Superior verbal and written communication skills, with excellent understanding of advanced clinical concepts and ability to exchange ideas with clinical stakeholders (e.g., physicians, nurses)
- Superior ability to grasp functional concepts quickly and exceptionally attentive to detail
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independently with minimal direction and supervision
- Excellent analytical and problem solving skills, including a creative and self-motivated mindset
- Excellent project management skills, including project planning, coordination, and task management
- Professional experience software engineering processes, particularly iterative and test-driven methodologies

Preferred:
- Understanding of KM and computerized clinical decision support and their application to improve healthcare safety, quality, and efficiency
- Knowledge of biomedical informatics standards, including data interoperability standards and biomedical terminologies
- Practical Experience with data and process modeling methodologies
- Practical experience of XML and other pertinent W3C standards
- Knowledge of advanced middleware platforms and enterprise integration technologies, including relevant commercial and open source products
- Practical experience with software programming and Web-based and Services-based Architectures
- Practical experience with database systems and SQL

Qualifications
- BS or equivalent degree in Computer Science or related field
- Master's degree in Biomedical Informatics or related field
- 5+ years of relevant professional experience with information systems, software development, knowledge management, or related activities.

About Our Organization
Partners HealthCare is an integrated health care system founded by Brigham and Women's Hospital and Massachusetts General Hospital. In addition to its two academic medical centers, the Partners system includes community and specialty hospitals, community health centers, a physician network, home health and long-term care services, and other health-related entities. Partners is one of the nation's leading biomedical research organizations and a principal teaching affiliate of Harvard Medical School. Partners HealthCare is a not-profit organization. We have opportunities in Finance, Information Systems, Human Resources, and many other areas that work behind the scenes in support of the Partners mission.