Check one: Faculty____ Exempt ____ Non-Exempt ____ Other____

Date Prepared: January 12, 2016
Division: Digital Systems and Stewardship

Prepared by: Ben Wallberg
Department: Software Systems Development and Research

Reports to: Manager, Software Systems Development and Research
Position Title: Senior Software Developer

NATURE OF WORK:

The Senior Software Developer provides broad programming support and leadership to the University of Maryland Libraries across a wide range of services, including web site delivery, content management, digital collections, digital preservation, enterprise infrastructure, and research software. These services support both the UMD Libraries and the broader University of Maryland research and learning communities.

The Libraries primary application delivery platform is the Java Enterprise technology stack running on RedHat Enterprise Linux virtual machines, using open source software such as Hippo CMS, DSpace, Fedora Commons Repository, and Kuali OLE. The incumbent will support applications like these across the software development and support lifecycle, as well as other technologies, including commercial and locally developed applications. The Senior Software Developer may also participate in development of Ruby on Rails and Hydra applications for our digital collections.

DUTIES AND RESPONSIBILITIES:

30% - Software Development - application programming in support of locally developed applications and integration with open source, commercial and production software; participate in the full development lifecycle, including initial configuration, design, testing, code review, updates, and ongoing support, maintenance, and troubleshooting.

30% - Project Lead - provide project oversight and leadership; manage issues, assignments, and sprints; provide software development mentoring to full and part-time staff; gather requirements from stakeholders and communicate project updates.

20% - Software Architecture - recommend and implement high-level design choices and technical standards, including software coding standards, tools, and platforms; develop workflows for release management and promotion through to production.

15% - Technology Research – research new tools and technologies, including applications, standards, languages, and frameworks; provide leadership in timing and extent of new technology adoption.

5% - Other software programming and management duties as assigned

PHYSICAL DEMANDS: Normal Office duties

SUPERVISORY RESPONSIBILITIES: None
QUALIFICATIONS:

EDUCATION:

Required: Bachelor's Degree

Preferred: Bachelor's Degree in a field related to information sciences, computer sciences and engineering, or information management

EXPERIENCE:

Required:

- Seven or more years of programming experience
- Experience creating web applications using a web application framework
- Experience using software development tools for version control (such as git), build and dependency management (such as Maven), and integrated development (such as Eclipse)
- Demonstrated ability to learn and use multiple programming languages and frameworks
- Excellent leadership and interpersonal skills
- Excellent written and verbal communication skills

Preferred:

- Experience developing Java Enterprise applications
- Experience developing Ruby on Rails applications
- Experience contributing to open source software
- Experience using an agile, test-driven development process
- Experience with search and discovery tools such as Solr
- Experience working in academic libraries and archives

Employee’s Signature_________________________________________ Date_____________

Print Employee’s Name__________________________________________

Supervisor’s Signature_________________________________________ Date_____________