Position Type: Exempt

Position Title: Applications Developer

Division: Digital Systems and Stewardship

Department: Software Systems Development and Research

Reports to: Ben Wallberg

Prepared by: Ben Wallberg, David Dahl

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NATURE OF WORK

University of Maryland Libraries' Digital Systems and Stewardship (DSS) Division provides systems support and development services to the University System of Maryland and Affiliated Institutions (USMAI) Library Consortium. The applications developer works independently and collaboratively with DSS team members and staff at USMAI libraries to develop, configure, and extend existing and new applications that address the needs of the consortium's 17 libraries. Supported applications include a mix of commercial, open source, and locally-developed systems.

This position works across departments, working on initiatives of the Consortial Library Applications Support (CLAS) team and participating in the procedures, practices, and knowledge sharing of the Software Systems Development and Research (SSDR) team. The position reports to the SSDR manager and receives work assignments from the CLAS manager.

The incumbent will participate in activities throughout all phases of the software development lifecycle, producing thorough documentation, managing applications using version control, and following team procedures and workflows for code release. UMD Libraries is a collaborative environment with opportunities to share knowledge and experiences with other developers and Libraries staff. All team members are relied upon to identify and recommend solutions that enhance the work of the CLAS team, staff of USMAI libraries, and users at the consortium's libraries.
DUTIES AND RESPONSIBILITIES

- **25%** - Extend and modify existing applications, utilizing APIs, various programming languages, and application frameworks

- **25%** - Work with members of the CLAS team and USMAI library staff to perform system maintenance, troubleshooting, user support, and change management activities for supported applications; develop and implement scripts and other utilities to achieve improved efficiencies in CLAS operations; monitor applications to identify and resolve system performance issues

- **20%** - Develop new applications in alignment with the goals and needs of USMAI and its member libraries; contribute to all stages of the software development lifecycle

- **10%** - Perform business and systems analysis to align proposed and existing applications with consortial needs; participate and lead requirements gathering, specifications development, system design, and system evaluation activities; maintain current awareness of trends and issues in library information technology and supported applications

- **10%** - Utilize project management tools such as JIRA to record and monitor progress; manage code using Git; monitor ticket-tracking systems for troubleshooting; produce and maintain thorough application documentation

- **10%** - Other duties as assigned to support CLAS, SSDR, and USMAI initiatives

PHYSICAL DEMANDS

Normal Office duties

SUPERVISORY RESPONSIBILITIES

None

QUALIFICATIONS

**Required:**
- Demonstrated understanding of tools for structured data processing, including relational databases, serialization formats (such as XML), and data focused languages (such as SQL or XSLT)
- Demonstrated ability to research and learn new technologies and programming languages
• Strong user service orientation
• Ability to work independently and as a member of a team
• Excellent interpersonal skills
• Excellent written and verbal communications skills

Preferred:
• Working knowledge of UNIX/Linux
• Familiarity with object-oriented programming
• Demonstrated ability to analyze and solve complex technical issues

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:
• One year of programming experience

Preferred:
• Experience programming using Java or Python
• Prior experience supporting IT in an academic research library
• Experience with integrated library systems
• Experience with relational database design, development and use including Oracle, MySQL, and PostgreSQL
• Experience using version control software, especially Git
• Experience with web development and related technologies, such as HTTP, HTML, CSS, and JavaScript