

Digital Library Software Engineer Arizona State University Libraries

GENERAL INFORMATION: The Arizona State University Libraries seeks a creative team player to join the Software Development team within the Informatics and Cyberinfrastructure Services Department. Reporting to the team lead in the department, contributes to the development of software infrastructure for a rapidly expanding suite of information and knowledge management services. The Software Development team is responsible for the design, implementation, and maintenance of applications that enable storage, discovery, and dissemination of information and digital assets held in ASU repositories as well as external systems.

THE UNIVERSITY: Located in the greater Phoenix metropolitan area, Arizona State University is one of the nation's preeminent public universities. ASU is a rapidly growing multi-campus public research university offering programs from the baccalaureate through the doctorate. Research centers such as ASU's Biodesign Institute and the Translational Genomics Research Institute (TGen) along with the numerous Phoenix area companies such as Google, Honeywell and Motorola contribute to the high technology base that enriches the ASU research environment.

THE UNIVERSITY LIBRARIES: The Arizona State University Libraries is a leader in innovative customer service and in the strength of its collections; it ranks in the top 40 research libraries in North America. The ASU Libraries include eight physical locations: the Library at the Downtown Phoenix campus, the Library at the Polytechnic campus, Fletcher Library at the West campus, and four libraries on the Tempe campus: Hayden Library, Noble Science and Engineering Library, Music Library, and Architecture and Environmental Design Library. In addition, the Ross-Blakeley Law Library serves the Sandra Day O'Connor College of Law. The libraries support over 60,000 full-time and part-time students and over 2,400 faculty. The Library's homepage can be accessed at <http://www.asu.edu/lib/>

RESPONSIBILITIES:

Responsible for systems analysis and programming; contributes to the analysis of data and functional requirements for information and knowledge-management applications, systems, and related workflow processes; analyzes and specifies requirements for interoperability/integration with campus middleware as well as other library and University systems; translates functional specifications into program design; programs applications and systems interfaces in applicable programming languages; maintains task lists and contributes to overall project management using appropriate software tools; coordinates efforts with project managers and team members; maintains an iterative testing process throughout the software development cycle; maintains and updates programming code; upholds best practices for documentation of source code; writes and maintains general applications and systems documentation; communicates with systems administrators and

other technical staff as needed to assure optimal operating environments and security for applications. Designs and integrates data-management and workflow tools with applications; performs related data-management tasks as needed.

This position plays a lead role in the design and development of tools to enable the appropriate capture and dissemination of digital objects managed in local repositories: develops workflow tools for the capture, ingest, and update of digital objects, including metadata and diverse datastreams; develops interfaces between digital repositories and applications services for diverse digital objects (XML-encoded textual objects; image, audio, and video data; numeric data; geospatial data; etc.); collaborates with Web designers and applications services managers to assure appropriate design, testing and evaluation of discovery and disseminator applications; contributes to the identification, integration, implementation and management of third-party information management systems as needed

QUALIFICATIONS:

Required: Bachelor's degree in computer science or closely related field and two years experience in software applications development OR any equivalent combination of experience and education from which comparable knowledge, skills and abilities have been achieved

Preferred: Demonstrable record of applications development related to information or knowledge management systems; Previous experience supporting or developing technology in an academic or research environment; prior experience with knowledge (or knowledge/learning) management systems; Knowledge of Java and other object oriented languages as required., Perl, Python, and other commonly used programming languages; Knowledge of the theory and principles of software design and architecture; their practical expression in multi-tiered applications frameworks; an understanding of the principles of MVC and services-oriented architectures. Experience is preferred in the area of Digital Libraries, or Information Retrieval application development; Knowledge of the theory and principles of database design and SQL RDBMS in particular; Knowledge of data description and data representation techniques, including familiarity with XML schemas, validation, transformation, and DOM in general; familiarity with data communication and interchange protocols; practical experience with web services technologies (SOAP/WSDL); Demonstrated ability to work effectively in a team-oriented and highly collaborative environment

SALARY AND BENEFITS: \$70,000 minimum, dependent upon qualifications and experience.

APPLICATION DEADLINE: May 16, 2008

APPLICATION PROCEDURES:

Application deadline is 11:59pm Arizona time on the day indicated. Log on to <http://www.asu.edu/asujobs> (you must create a username and password), click on “search staff postings”, and review the list for Job ID 14654, Digital Library Software Engineer. Complete required information and attach cover letter, resume, and names, addresses and phone numbers of three professional references. **REQUESTED MATERIAL MUST BE IN ONE ATTACHMENT.** Only electronic applications are accepted for this position. If you need assistance applying for this job, please contact our customer service center at 480-965-2701.

Applicant will not be considered for the position if their application is incomplete. Work experience dates must include months and years worked. Complete contact information for three professional references must be submitted upon applying.

ASU does not pay candidates for travel expenses associated with interviewing, unless otherwise indicated by the department at the time of call for interview.

OTHER INFORMATION: Hiring is contingent upon eligibility to work in the United States. A background check is required for employment. For more information regarding ASU and the Tempe campus visit our web site: <http://www.asu.edu/> and <http://www.asu.edu/tempe/> . For the Tempe and/or Phoenix area please visit <http://www.arizonaguide.com/home.asp> .

ASU is an EO/AA employer that actively seeks diversity among applicants and promotes a diverse workforce