Research Programmer
Illinois Digital Environment for Access to Learning and Scholarship (IDEALS)
(Academic Professional)
University of Illinois Library at Urbana-Champaign

Position Available:

Duties and Responsibilities:
With support from the Provost, the Library and CITES have launched a multi-year effort to create an initiative that will enable us to select, manage, disseminate, preserve, and provide persistent access to the digital research and scholarship of faculty, staff, and students on the Urbana-Champaign campus. The Illinois Digital Environment for Access to Learning and Scholarship (IDEALS) is a set of collections and related services that together constitute the campus institutional repository. The types of materials included within this service are (but are not limited to) digitally produced publications, reports, working papers, pre-prints, presentations, video and audio files, datasets, and learning objects. IDEALS is administered under the direction of a Coordinator, and is guided by a steering committee of representatives from key campus units who will provide advice to the University Librarian and the CIO, a working group for the future direction for this initiative co-chaired by the Associate University Librarian for Information Technology Planning and Policy and the CITES Senior Technology Architect, and a standing committee for decisions related to the production environment for IDEALS.

The Research Programmer reports to the Coordinator and is responsible for providing programming, database design, implementation and support, customization, and continued assessment of the technical infrastructure for all components, including digital preservation, of the IDEALS initiative. The Research Programmer works with staff from the Library, CITES, and other key campus personnel to translate user needs into technical requirements and implement these in one or more open source software repository systems chosen to support the project. The Research Programmer will also interact on a regular basis with technical staff in the Library and CITES to work on activities that might have overlap with related projects in the Library and CITES. In addition, the Research Programmer will help provide technical support and expertise to any digital preservation program instituted by the Library. As necessary, the Research Programmer may also provide technical support to other scholarly communication or digital preservation research projects or programs within the Library.

Specific activities include: 1) implementation and maintenance of the institutional repository software platform; 2) customization of the software, or integration with other software platforms, as needed; 3) analysis, development, and documentation of tools and utilities for ingesting materials to be added to the repository; 4) assessment and development of tools and utilities for both access to and preservation of materials added to the repository; 5) analysis, development, and documentation of tools and utilities to help manage and track rights issues; 6) continual assessment of ongoing technical and digital preservation requirements such as storage, format migration and normalization; 7) participation in developer communities for the institutional repository software; and 8) participation in the Library's digital preservation program and ongoing preservation planning activities.

Qualifications:

Required: Minimum of a Bachelor's degree in an information technology field and two years of experience in software development and programming; demonstrable experience developing interactive Web sites; programming experience with Web scripting languages and Perl, Java, and/or Visual Basic languages; good written and oral communications skills, and the ability to work independently and in a collaborative environment.

Preferred: Master's degree in Computer Science, Library and Information Science, or related information technology field; two or more years of experience in developing and programming interactive, database-driven Web applications; Linux Web and/or Windows Web development experience; knowledge or experience with one or more of the following technologies: DSpace, XML, XML Schema, XML or HTML
DOM, XSLT, RDMS, Dynamic HTML and conceptual knowledge of or experience in dealing with metadata in a library setting, including one or more of following: MARC, EAD, TEI, Dublin Core, RDF, FGDC. Knowledge of latest digital preservation standards and best practices, such as OAIS and TDR.

Salary:
Salary is competitive and is commensurate with experience and credentials.

Terms of Appointment:
Twelve month appointment; 24 work days vacation per year, 11 paid holidays, 12 days annual sick leave (cumulative) plus an additional 13 days (non-cumulative) per year if necessary; health insurance, requiring a small co-payment, is provided to employees (coverage for dependents may be purchased); participation in the State Universities Retirement System, which includes several private options, is compulsory (8% of staff member’s salary is withheld and is refundable upon termination); newly hired university employees are covered by the Medicare portion of Social Security, and are subject to its deduction.

Campus and Community:
The University of Illinois at Urbana-Champaign is a comprehensive and major public land-grant university (Research Level 1) that is ranked among the best in the world. Chartered in 1867, it provides undergraduate and graduate education in more than 150 fields of study, conducts theoretical and applied research, and provides public service to the state and the nation. It employs 2,000 faculty members who serve 26,000 undergraduates and 10,000 graduate and professional students, approximately 25% of faculty receive campuswide recognition each year for excellence in teaching. More information about the campus is available at www.uiuc.edu.

The University is located in the twin cities of Champaign and Urbana, which have a combined population of 100,000 and are, situated about 140 miles south of Chicago, 120 miles west of Indianapolis, and 170 miles northeast of St. Louis. The University and its surrounding communities offer a cultural and recreational environment ideally suited to the work of a major research institution. More information about the community can be found at http://www.cucvb.org/, http://www.uiuc.edu/misc/campus.html, or http://www.ccchamber.org/.

Apply:
Send letter of application and complete resume with names, addresses, telephone numbers, and e-mail addresses (where available) of three references to: Cindy Kelly, Head, Library Human Resources, University of Illinois Library at Urbana-Champaign, 1408 West Gregory Drive, Urbana, IL 61801. E-mail mokelly@uiuc.edu. Electronic applications are acceptable initially, but must be followed by a hard copy with signature. Phone (217) 333-8169.

Deadline:
In order to ensure maximum consideration, applications and nominations should be received by Date

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