POSITION VACANCY ANNOUNCEMENT

POSITION:  Digital Collections Front-End Web Programmer – Web Developer 2

REPORTS TO:  Head, Digital Development

SALARY:  Minimum annual salary at $51,500; Actual rate will reflect experience and credentials

REQUISITION #:  512079

DEADLINE DATE:  October 9, 2019 - applications will be reviewed as received

JOB SUMMARY
As a member of the Library Technology Services Department, Digital Development Unit, a Web Development Programmer (Digital Collections Front-End Web Developer) is being recruited to perform duties related to the creation and support of software applications for the Libraries’ Digital Support Services and Digital Partnerships & Strategies Departments, and to develop web applications and services with an emphasis on user experience. This position reports directly to the Head of the Digital Development Unit, and works to design, develop, test, and deploy digital library websites and web applications including designing web application architecture, code development, and ensuring site functionality.

The Library Technology Services Department serves as the focal point for planning, managing and coordinating technology-based Information Resources that support Library operations. The Digital Development Unit is an agile development group that supports internationally recognized digital libraries of critical importance for research, preservation, and culture, including the Florida Digital Newspaper Library, the Digital Library of the Caribbean, and over 300 other outstanding digital collections that comprise the UF Digital Collections (UFDC), containing over 14 million pages, covering over 78 thousand subjects in rare books, manuscripts, antique maps, children's literature, newspapers, theses and dissertations, data sets, photographs, oral histories, and more for permanent access and preservation. Through UFDC, users have free and Open Access to full unique and rare materials held by UF and partner institutions. The Digital Development Unit utilizes UF’s central IT infrastructure for commodity-based servers, and collaborates with core units in the Libraries for development and management to develop unique applications that power the user interface, and tools that power local and partner digitization, including full supports for production, digital curation, tracking, and reporting.

RESPONSIBILITIES
Design, implementation and maintenance of digital library web and related database systems which effectively deliver digital resources. The underlying programming, scripting, query, and markup languages involved may include, but are not limited to C#, Microsoft SQL (T-SQL), PHP, Python 3+, JavaScript, HTML5 and CSS, with initial emphasis on C# and Microsoft SQL. Coded projects should be accurate,
effective, efficient, secure, standards-based, completed by designated timelines, completed with appropriate testing protocols, and be sufficiently documented so that a fellow team-member familiar with the specific programming language can determine program flow and make modifications based upon the associated documentation. Employ secure coding practices. Code to be used in a production environment is subject to the approval of the appropriate governing IT Security entity and the team lead of Digital Development.

Design, implementation and maintenance of digital production services relational database components (tables, SQL stored procedures, etc.) and tracking resource usage during digitization, and facilitates the compilation of analytical data in support of the Digital Support Services department. Develop tools and reports related to Google Analytics to gauge usage of the University of Florida Digital Collections (UFDC).

Perform routine, periodic processes as requested by senior digital programmers and unit supervisor, such as bulk ingests of digital metadata and associated files. Debugging of ingest programs and metadata record sets that are related to bulk record ingest workflows. Install, maintain and instruct DSS staff in the use of digital collection related console applications and toolkits.

OTHER DUTIES
Performs other incidental duties necessary to accomplish the essential functions listed above. Represents the Information Technology Department in internal and external committees, teams and similar work-groups.

QUALIFICATIONS
Required:
A bachelor’s degree in an appropriate area of specialization and two years of appropriate experience, or an associate’s degree and four years of appropriate experience.

Preferred:
- Bachelor's or Master's degree in Computer Science or Computer Engineering
- Excellent verbal and written communication skills
- Demonstrated collaboration skills and ability to work on a team and facilitate collaboration
- Experience designing, developing, and testing software to meet requirements and design specifications.
- Commitment to contributing to a respectful and caring community for all, including individuals of diverse backgrounds, experiences, races, ethnicities, gender identities, sexual orientation, and perspectives
- Strong critical thinking, problem-solving and prioritization skills in the midst of multiple tasks while retaining attentiveness to detail
- Ability to be innovative and forward thinking when designing and seeking solutions to complex requests
- Full stack development, with demonstrated experience in the following front-end and back-end technologies:
  - HTML and CSS and Web scripting languages, in particular JavaScript, and use of jQuery
  - XML and XML schemas
  - Familiar with RESTful web services and APIs
  - Web Server platforms, especially IIS
  - Server operating systems, especially Windows Server 2008 R2 and above
  - Object-oriented programming languages. Preference given to experience with C#
  - Familiar with Visual Studio IDE
  - Automated testing, writing testable code
  - Use of Git for source code versioning
  - Python 3+
  - Eliciting programming requirements from users
  - User-Interface Design
  - Process and project management, especially stakeholder consultation for defining needs
  - Preparing documentation
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- SQL or other database query equivalent and knowledge of relational database models, especially MSSQL
- Familiar with DevOps practices
- Experience with developing and delivering training

THE UNIVERSITY OF FLORIDA
The University of Florida (UF) is a major, public, comprehensive, land-grant, research university. The state's oldest and most comprehensive university, UF is among the nation's most academically diverse public universities and won the 2018 Senator Paul Simon Award for Comprehensive Internationalization. UF was ranked 9th among public universities in Forbes’ “America’s Best Employers 2015” and 8th among “Top Public Schools” in U.S. News and World in 2018. UF has a long history of established programs in international education, research and service. In 2013 the Florida Legislature designated UF as the state's preeminent institution which grew into an opportunity to achieve national and international recognition for the University’s work in serving students and the world. It is one of only 17 public, land-grant universities that belong to the Association of American Universities. UF traces its beginnings to a small seminary in 1853 and is now one of the largest universities in the nation, with more than 50,000 students. For more information, please consult the UF homepage at http://www.ufl.edu.

UNIVERSITY OF FLORIDA LIBRARIES
The libraries at the University of Florida form the largest information resource system in the state of Florida with seven libraries and three off-campus facilities. The George A. Smathers Libraries are comprised of six of the campus libraries, and all of the off-site facilities. The only library outside of this system is Lawton Chiles Legal Information Center at the Levin College of Law. The libraries hold over 6 million print volumes, 8.1 microfilms, 1.5 million e-books, 145,000 full-text electronic journals, over 1000 electronic databases, 1.3 million documents and 1.4 million maps and images. The libraries maintain partnerships and engages in a variety of collaborative, international projects while engaging with the UF community.

The UF Libraries have built a number of nationally significant research collections, including the Latin American, Judaica, Florida History, Children’s Literature, and Maps and Imagery collections. We are a member of the Association of Research Libraries (ARL) and other regional library consortia. The library staff consists of more than 300 FTE librarians, technical/clerical staff and student assistants.

The George A. Smathers Libraries are strong advocates for inclusion and intellectual freedom. The Libraries’ commitment to both is articulated in the Inclusion Statement and Intellectual Freedom Statement, both of which are posted at http://cms.uflib.ufl.edu/InclusionAndIntellectualFreedom.

LIBRARY TECHNOLOGY SERVICES DEPARTMENT
The Library Technology Services department at the George A. Smathers Libraries serves as the focal point for planning, managing and coordinating programming, development, and all computer based information technology and online resources that support library operations and services to the University community. The Library Technology Services department manages 34 servers supporting programs and services used throughout the US and the world- including digital library programs, and internal application for the operations of the Libraries. The department, supports over 625 workstations used by 250 staff with over 6 million on-site and virtual visitors a year, high-end technology classrooms for credit courses and workshops, and event and exhibit spaces with interactive technologies for virtual conferencing, and touch screen user support. The Libraries’ Technology department leads the planning and development of new ways to leverage technology in support of the mission and goals of the Libraries.

COMMUNITY
Gainesville, Florida and the surrounding community are home to approximately 257,000 people and both the University of Florida and Santa Fe College. The city is surrounded by over 40 nature parks, including many spring-fed lakes and rivers, with many paved and unpaved trails for recreation and is situated just...
over an hour from the Gulf of Mexico and the Atlantic Ocean. Gainesville is known as an award-winning and innovative city friendly to both professionals and families. The Guide to Greater Gainesville combines award winning photography and compelling articles that capture all of the reasons for calling Gainesville your next home. The area has numerous cultural institutions and is a haven for sports fans. Jacksonville, Orlando, Tampa, Tallahassee, and St. Augustine are all within a two-hour drive. Gainesville is an affordable city and area to live in – using a cost of living calculator you can compare cities across the United States. See how affordable Gainesville really is!

**BENEFITS**
Vacation days, paid holidays, and sick leave days; retirement plan options; insurance benefits; tuition fee waiver program; no state or local income tax. Prospective employees should review the information about employment and benefits at UF available at [http://hr.ufl.edu/benefits/](http://hr.ufl.edu/benefits/). UF offers a comprehensive new online benefits tool called [ALEX](http://hr.ufl.edu/benefits/) to help employees and prospective employees review benefit choices at UF.

**APPLICATION PROCESS**
To apply, submit
- a cover letter detailing your interest in and qualifications for this position
- your current resume or CV
- a list of three references including their contact information (telephone number and email address)

Apply by October 9, 2019 (applications will be reviewed as received). Submit all application materials through the Jobs at UF online application system at [Requisition 512079](http://hr.ufl.edu/benefits/). Failure to submit the required documents may result in the application not being considered. If you have any questions or concerns about this process please contact Tina Marie Litchfield, George A. Smathers Libraries Human Resources Office, at tlitchfield@uflib.ufl.edu.

**AFFIRMATIVE ACTION/EEO**
The University of Florida is an Affirmative Action, Equal Opportunity Employer and encourages applications from women and minority group members. We are dedicated to the goal of building a culturally diverse and pluralistic environment; we strongly encourage applications from women, members of underrepresented groups, individuals with disabilities, and veterans. As part of the application process, applicants are invited to complete an on-line confidential and voluntary demographic self-disclosure form which can be found at: [http://hr.ufl.edu/data-card/](http://hr.ufl.edu/data-card/). This information is collected by the University of Florida's Office of Human Resources to track applicant trends and is in no way considered by the Smathers Libraries in the selection process.