

POSITION VACANCY ANNOUNCEMENT

- POSITION TITLE:** Senior Application Developer for Digital Libraries
- CLASSIFICATION:** Application Developer Analyst 2
- REPORTS TO:** Head, Digital Development, Library Technology Services
- SALARY:** \$69,600 minimum salary
The Smathers Libraries offer a salary commensurate with experience and credentials
- REQUISITION #:** 523469
- DEADLINE DATE:** September 29, 2022 - applications will be reviewed as received

PLEASE NOTE: The Digital Development team currently works remotely, including this position. Assessment of the continued viability of remote work is reassessed regularly with the possibility of onsite work being required.

JOB SUMMARY

As a member of the Library Technology Services Department, the Senior Application Developer for Digital Libraries, under general direction of the unit head, leads the team supporting UF-hosted digital libraries (e.g., the UF Digital Collections, Digital Library of the Caribbean, and Florida Digital Newspaper Library) and develops digital library systems, applications, services, and processes. The Senior Application Developer is a 100% remote position, provides expertise for the design and development of all digital library systems, and works with analysts and stakeholders, under general direction of the unit head, to lead definition of system scope and objectives based on user needs. Serves as the technical lead for the team for Scrum following agile concepts for test-driven development, iterative sprint-based development and delivery of applications and enhancements, providing technical mentoring, assigning, directing, and monitoring the work of other analysts and programming team members.

To support all students, staff and faculty, and foster excellence in a diverse and collaborative society, the Libraries are actively seeking candidates who bring culturally-rich lived experiences to work with individuals of diverse backgrounds, experiences, races, ethnicities, genders, sexual orientation, and perspectives.

RESPONSIBILITIES

Design, implementation and maintenance of digital library applications, APIs, search indexes and associated databases in a secure and timely manner

- Lead, mentor, instruct, and direct the technical work of the Digital Development Team in close collaboration with the Unit Head to design, develop, test, and deploy digital library applications including software to assist in internal digital workflow and to integrate with other library

information systems

- Develop, document and maintain applications, modules, plugins, APIs, and related processes. The underlying programming, scripting, query and markup languages involved may include, but are not limited to Python/Django, PostgreSQL, Microsoft SQL, C# and Elasticsearch. Code management is accomplished using Git.
- Maintain and enhance development associated with the existing patron-facing sites for UF-hosted digital libraries.
- Perform system analysis for the purpose of capturing and translating user needs into tangible multi-user software system requirements and functionality. Promote, and actively participate in, a process that provides for thorough and documented concept analysis and project pre-planning, establishment of milestones and project sizing.
- Employ secure coding practices so that security is “baked in” from the onset of development. [Code to be used in a production environment is subject to the approval of the appropriate governing IT Security entity.]
- Leads in the design and implementation of development, testing, quality assurance and documentation procedures.
- Contributes to the repository of policies, standards and procedures that formalize the unit’s approach and execution of software development.
- Provides technical assistance and expertise during project planning and for each sprint, and for longer-term planning with milestones, project plans, and estimates of the analysis and development effort based on requirements
- Will be, or transition to, the lead for daily Stand-Up meetings to review and prioritize daily development tasks.
- In coordination with the Unit head, implements a system and network architecture that provides for efficient business process workflows, system and data integrity, continuous availability, and scalability.
- As needed, provides training and instruction in the use of web and programming interfaces.

Professional Development:

- Stays abreast of security best practices and vulnerabilities associated with web sites and APIs (OWASP).
- Stays abreast of digital library/repository system best practices.

Other Duties

- Perform other incidental duties necessary to accomplish the essential functions listed above. Represent the Library Technology Services Department in internal and external committees, teams and similar work-groups.

QUALIFICATIONS

We value a range of experience and perspectives. Applicants are encouraged to communicate in their application materials and subsequent interview conversations how their work and other experiences satisfy the following qualifications in ways that may not be obvious.

Required:

High school diploma or equivalent and four years of relevant experience or Associate’s degree and two years of relevant experience; or an Appropriate college coursework or vocational/technical training may substitute at an equivalent rate for the required experience.

Preferred:

- Master's degree in Computer Science or Computer Engineering
- Demonstrated experience in application and API and Elasticsearch indexing.
- Demonstrated experience and expertise with:
 - Linux (Red Hat preferred) and NGINX
 - Multiple programming languages, preference given to familiarity with Python/Django and bash scripting
 - SQL, specifically PostgreSQL preferred
 - Git source code management
 - Agile/Scrum influenced software development environments
 - Generating and maintaining comprehensive, digestible documentation
- Experience with RabbitMQ and/or other message brokers
- Excellent verbal and written communication skills
- Experience with developing and delivering training
- Ability to work both independently and collaboratively with faculty, students, staff and administrators.
- Commitment to contributing to a respectful and caring community for all, including individuals of diverse backgrounds, experiences, races, ethnicities, gender, sexual orientation, and perspective
- Flexibility, and ability to adapt and work in a rapidly changing academic environment
- Basic computer skills and experience with Microsoft Word and Outlook.

LIBRARY TECHNOLOGY SERVICES

The Library Technology Services (LTS) Department is a service-oriented group that maintains, researches, develops, optimizes and supports information systems and technology for the George A. Smathers Libraries at the University of Florida. The department is a service hub providing an array of services and support, including technical expertise for evaluating external service providers, application development, project management, risk management, and administration supporting collaboration to optimally deliver on program and project needs. Unit: 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 15 million pages.

UNIVERSITY OF FLORIDA LIBRARIES

The libraries at the University of Florida form the largest academic information resource system in the state of Florida with seven libraries and two off-campus facilities. The [George A. Smathers Libraries](#) are comprised of six of the campus libraries, and the off-site facilities. In addition to this system, the [Lawton Chiles Legal Information Center](#) is part of the Levin College of Law. The Libraries hold over 6.27 million print volumes, 1.5 million e-books, 145,000 full-text electronic journals, over 1000 electronic databases, 1.3 million documents, over 15 million digitized pages from the Libraries' collections and 1.4 million maps and images. Distinctive holdings include the Isser and Rae Price Library of Judaica, Latin American and Caribbean Collection, Baldwin Library of Historical Children's Literature and the P.K. Yonge Library of Florida History. The Libraries maintain partnerships and engages in a variety of collaborative, international projects while [engaging with the UF community](#). 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 and Intellectual Freedom Statements](#). The Smathers Libraries will foster and maintain a culture that supports DEI, as values are foundational and permeates all aspects of our organization per [Strategic Directions 4: Diversity, Equity, and](#)

[Inclusion](#). Support for professional development is central to the Smathers Libraries. Supports include a formal mentoring program, a robust training program, release time for research and professional service, a comprehensive grants program, and funding for professional development travel.

[Land Acknowledgment Statement](#)

The Smathers Libraries acknowledge that the main (Gainesville) campus of the University of Florida is located in the ancestral territory of the Potano and Seminole peoples. The Smathers Libraries acknowledge its obligation to honor the past, present, and future Native residents and cultures of Florida.

THE UNIVERSITY OF FLORIDA

The University of Florida (UF) is the state of Florida's preeminent 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 is currently fifth among "Top Public Universities" in the U.S. News and World Report and second among Forbes "Best Value Public Colleges (2016)". UF has a long history of established programs in international education, research, and service. It is one of only 17 public, land-grant universities that belong to the [Association of American Universities](#). At UF we have some of the top faculty in the country. In addition to attracting over \$900 million in research each year, they foster the uniquely collaborative environment that transforms potential into actual results. 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. The University of Florida seeks to address key challenges of our time, from COVID-19 to racism. In 2020 President Fuchs announced a [UF-Anti-Racism Initiative](#). You can read about various efforts across campus on the University's dedicated [anti-racism website](#).

BENEFITS

[University benefits](#) for this position include retirement plan options, insurance benefits, paid family leave (parental and medical), tuition fee waiver program, and employee assistance program, as well as paid time off and holidays. Gainesville, Florida, has no state or local income tax. The University of Florida provides ongoing [guidelines and resources related to COVID-19](#).

AFFIRMATIVE ACTION/EQUAL EMPLOYMENT OPPORTUNITY

The University of Florida is committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information, and veteran status in all aspects of employment including recruitment, hiring, promotions, transfers, discipline, terminations, wage and salary administration, benefits, and training. We are dedicated to the goal of building a broadly diverse and inclusive faculty and staff within a culturally diverse and pluralistic environment; we invite all qualified applicants including women, members of underrepresented groups, individuals with disabilities, and veterans. The University of Florida is a public institution and subject to all requirements under the Florida Sunshine and Public Records laws.

If an accommodation due to a hearing or speech disability is needed to apply for this position, please call 352-392-2477 University of Florida Human Resources or the Florida Relay System at 800-955-8771 (TDD).

GAINESVILLE COMMUNITY

Gainesville 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 more than 40 nature parks, including many spring-fed lakes and rivers, with many paved and unpaved trails for recreation. The city is just over an hour from the Gulf of Mexico and the Atlantic Ocean. Gainesville is 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 the reasons for calling Gainesville your next home. The City of Gainesville is a progressive municipality that seeks to [promote racial equity](#). 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.

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 11:55 pm (EST) on September 29, 2022 (applications will be reviewed as received). Submit all application materials through the Jobs at UF online application system at Requisition [Job Number 523469](#). 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.