



**Position Title:** Application Developer

**Official KU Title:** Research Engineer

#### **Position Overview**

Work as part of a team to support the research and service mission of the Kansas Geological Survey (KGS). The Application Developer designs, develops, implements, maintains, and supports data-driven applications (full stack application developer). An ideal candidate for this position is an organized, resourceful, and self-motivated team player.

**Work Location:** On-site is preferred. Hybrid is available if recommended by the position supervisor. Candidates must be authorized to work in the U.S. and be physically located within the U.S.

**Application Deadline:** Review begins June 12, 2023, and will continue until a qualified pool of candidates is received.

**Tentative Start Date:** July 31, 2023, exact start date is negotiable.

Starting salary range: \$70,000 - \$85,000, depending on qualifications and experience.

#### **Salary, Employment Status, and Fringe Benefits**

Full-time position with benefits, subject to a six-month probation and annual performance reviews. The official University of Kansas title is "Research Engineer." Salary is commensurate with qualifications and experience. KU offers great benefits to employees with up to 22 days of paid vacation earned per year, 12 days of sick leave earned per year, nine paid holidays plus one discretionary day, an excellent retirement program, medical and dental insurance, life and disability insurance, other benefit plan options, and State of Kansas discounts offered by various vendors. KU also offers employees educational and professional development opportunities. **KGS at KU is a great place to work!** The University actively encourages applications from members of underrepresented groups.

#### **Technologies We Use:**

- Front-end: ColdFusion, APEX, JavaScript, jQuery, Dojo Toolkit, Intercooler, Bootstrap
- Back-end: Oracle (SQL, PL/SQL), ArcGIS Enterprise
- Desktop development environments: Python, Java, C#
- Server platforms: VMWare, Linux, Windows
- Desktop platforms: Windows, OS X, Linux
- Frameworks: ColdBox
- Cloud platforms: Azure
- Dev-ops: GitLab, Jira

#### **Position Requirements:**

- This position will require attendance at regularly scheduled meetings either onsite or through telecommunication platforms.
- This position may periodically be required to provide on-site assistance at the KGS facilities in Lawrence and Wichita.

#### **Duties**

(30%) Work independently and collaboratively to design, implement, and support data-driven web applications supporting KGS research, service, and administrative functions.

(30%) Modernize legacy applications using the standard KGS software stack.

(25%) Develop, implement, and maintain data-driven web applications in support of state agencies.

(10%) Provide consultation, training, hardware and software technical assistance.

(5%) Other duties as assigned by supervisor.

### **Required Qualifications**

1. Associate's degree with 3 years related experience OR Bachelor's degree with 1 year of related experience.
2. Professional experience with HTML, CSS, JavaScript, and AJAX.
3. Professional experience in data-driven application development.
4. Professional experience with relational databases.
5. Strong communication skills. Written skills will be evaluated by the quality of application materials and/or published materials. Oral communication skills will be assessed by the interview and through reference checks.

### **Preferred Qualifications**

1. Professional experience with RDBMS including table and schema design, indexes, sequences, and triggers.
2. Professional experience with batch-processing using shell scripts, Python, or similar scripting languages.
3. Professional experience with front-end development and responsive web design.
4. Experience with object-oriented programming languages such as C++, C#, Java, or .Net
5. Experience with web-based mapping applications.
6. Experience with project scoping, requirements gathering, and system design.

### **Candidate Instructions**

Apply online only at <https://employment.ku.edu/staff/25131BR>.

Complete the University of Kansas Unclassified Professional Staff profile and upload the required material:

1. Cover letter specifically addressing each required and preferred qualification and each position requirement.
2. Resume.
3. Contact information for two or more work references. Provide relationship to the references.
4. Unofficial college transcripts to determine education requirement, if applicable.

Code samples sufficient to evaluate the applicant's coding skills will be required for candidates selected for interview.

Review begins June 12, 2023, and will continue until a qualified pool of applicants is received. For best consideration, apply by the review date.

### **CONTACT INFORMATION**

Annette Delaney, Human Resources  
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### **About the Kansas Geological Survey**

A research and service division of the University of Kansas, the Kansas Geological Survey studies the geology of Kansas, develops new techniques for exploring and analyzing geologic data, and produces and disseminates maps, reports, and scientific papers. The KGS, created in 1889, has an annual state budget of approximately \$6 million and employs more than 90 scientific researchers and technical support staff, and approximately 35 students, engaged in a variety of disciplines, including geophysics, energy resources, geohydrology, sedimentology, stratigraphy, petroleum geology, Quaternary geology, geoarchaeology, GIS and computer science, and public outreach. In addition to core and data repositories at its headquarters in Lawrence, the KGS operates a well-sample library in Wichita that is a repository for rock samples from oil and gas wells drilled in the state.

The KGS is organized into four research areas — energy research, geohydrology, geophysical exploration, and stratigraphic research — and a number of service sections. KGS researchers have available a variety of tools, equipment, and labs for the applied geosciences, including a state-of-the-art shallow seismic-reflection system, ground-penetrating radar, a direct-push unit, three drill rigs, well-logging unit, a distributed temperature sensing system, and electromagnetometers, as well as a core storage facility, the W. Lynn Watney Core Laboratory, a petrophysical core analysis lab, a soil and sediment laboratory, and an analytical chemistry lab.

Technical support includes editing, publishing, and cartographic services and full-service support for a diverse array of computing platforms and software, GIS, and web applications. The KGS also houses and operates the Kansas Data Access

and Support Center, an important source of state geospatial data. For more information about the KGS, visit our website: <http://www.kgs.ku.edu>.

### **About the University**

Founded in 1865, KU is a major public research and teaching institution of 28,500 students and 2,600 faculty on five campuses (Lawrence, Kansas City, Overland Park, Wichita, and Salina).

### **About Lawrence**

A city of approximately 95,000, Lawrence is located on a rolling landscape 35 miles west of the major metropolitan area of Kansas City and 20 miles east of Topeka, the state capital. Home to Haskell Indian Nations University as well as KU, Lawrence offers the cultural and athletic events of a university setting. For more information about Lawrence, visit <http://www.lawrence.com>, Unmistakably Lawrence (<https://unmistakablylawrence.com>), and Lawrence Public Schools (<https://www.usd497.org>).

EO/AA Employer <https://policy.ku.edu/IOA/nondiscrimination>

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