



Position Title: Electrical Engineer

KU Title: Research Engineer

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

Tentative Start Date: July 17, 2023, exact start date is negotiable.

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 176 hours of paid vacation earned per year, 96 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.

Starting Salary Range: \$75,000 or higher, commensurate with qualifications and experience.

Position Overview

Using an engineering approach, the Electrical Engineer will test, maintain, and troubleshoot field data acquisition equipment. Freedom to conceive, design, and build hardware and software supporting data acquisition. The ideal candidate will be more gratified in solving a problem with a circuit and custom algorithm than deriving a differential equation. The successful candidate will be a person who can map a path from the need to the goal, even if it means using 'black-tape and baling wire' to get there. **There will be mentorship for this position.**

Travel across the U.S. to some of the most unique and out of the way places in support of field research. Working with US Government scientists routinely involves cutting edge work on sensitive data from locations rarely seen by the general public. This is not your run-of-the-mill electrical engineering position. Every day can provide challenges and satisfaction with incredible freedom to explore and conceive using skills developed in the classroom.

Responsibilities

40% Participates in research planning and development for a wide range of projects and programs using engineering background and expertise to determine optimum electronic systems and/or devices for purchase, to design, or construction, based on project goals.

20% Conceives, designs, and implements microcomputer/microcontroller systems/software as well as electronic and mechanical devices for the testing of advanced geophysical data acquisition and processing research.

20% Acting as an electronics specialist, troubleshoot electronic systems. Design, build, and implement specialized electronic components for a wide range of applications.

10% Facilitate and collaborate on the annual water-level measurement program.

10% Participate with data recording, transfer operations, and data management of the Kansas earthquake network.

Required Qualifications

1. B.S. in Electrical/Computer Engineering plus 1 year of relevant experience OR Associate's degree in electrical engineering technology with 3 years of relevant experience.
2. Demonstrated experience with diagnosing/troubleshooting electronic equipment malfunctions and successful repair as evidenced by application material.

Position Requirements

1. Valid driver's license.
2. Occasional travel around ten days at a time, averaging 25-30 days per year.
3. Periodically work in varied outdoor conditions.
4. Lift and move up to 30 pounds short distances with or without accommodation.
5. Work independently and make decisions with remote guidance.

Preferred Qualifications

1. Demonstrated experience programming in C, C++, and/or Visual Basic.
2. Demonstrated experience with electronic test equipment.
3. Developed hardware, software, and/or firmware products as evidenced by application material.

Application Procedure

Apply at <https://employment.ku.edu/staff/25213BR>. Complete the University of Kansas Unclassified Professional Staff profile and upload the required material:

1. Cover letter- address each required and preferred qualification and each position requirement.
2. Resume.
3. Contact information for two or more work references; include relationship to the references.

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

Contact Information

Annette Delaney, Human Resources
Kansas Geological Survey, University of Kansas
adelaney@ku.edu

About the Kansas Geological Survey

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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