

## Notice

This notice is being provided as a result of the filing of an application for permanent alien labor certification for the job opportunity described below. Any person wishing to comment may provide documentary evidence to the Certifying Officer, U.S. Department of Labor; Employment and Training Administration; Office of Foreign Labor Certification; 200 Constitution Avenue NW, Room N-5311; Washington, DC 20210.

### Research Engineers – Job ID #112595 in Wichita, Kansas

**DUTIES:** Independently interprets, organizes, executes, and coordinates research assignments in a field or specialization of an engineering discipline. Formulates and conducts research on problems of considerable scope and complexity, using the following software: MATLAB, SOLIDWORKS, CATIA, 3D Experience, PRECiV Pro, ImageJ. Explores subject area and defines scope and selection of problems for investigation through conceptually related studies or series of projects of lesser scope. Oversees photomicrography in testing operations, including examining specimens and analyzing coupons, ensuring compliance with internal standards. Conducts optical void analysis and executes vital measurements on photomicrographs following established imaging protocols. Applies diversified knowledge of engineering research principles, practices, and protocols in research projects; makes recommendations and conclusions which serve as the basis for decision making in a specialty area. Receives administrative supervision, with assignments given in terms of broad general objectives and limits. Read and interpret blueprints, technical drawings, schematics, or computer-generated reports. Investigate equipment failures or difficulties to diagnose faulty operation and recommend remedial actions. Conduct impact tests on the following materials: polymers, composites and ceramics; and recording relevant data, including impact energy, absorbed energy and fracture behavior. Develops model concepts and approaches as an individual researcher and acts independently on technical matters. Design test control apparatus or equipment or develop procedures for testing products. Develop or test models of alternate designs or processing methods to assess feasibility, sustainability, operating condition effects, potential new applications, or necessity of modification. Collaborates with users and principal investigators on design, analysis, application, and reporting of research projects; provides technical leadership and technique consultation. Confer with engineers or other personnel to implement operating procedures, resolve system malfunctions, or

provide technical information. Prepares analyses, reports, and other documentation for publication; presents findings at local, national, and/or international meetings. Prepares, or assists with the preparation of, materials for grant proposals to obtain funding in support of research activities. Research, design, evaluate, install, operate, or maintain mechanical products, equipment, systems or processes to meet requirements. Serves as investigator on single or multiple projects of complexity and scope consistent with above criteria, and/or oversees a research unit. Maintains currency of knowledge with respect to relevant state-of-the-art technology, equipment, and/or systems. Study industrial processes to maximize the efficiency of equipment applications, including equipment placement.

**MINIMUM REQUIREMENTS:** Bachelor's degree in Mechanical Engineering or a related field. 2 years of experience working in a research laboratory, conducting impact tests on the following materials: polymers, composites and ceramics; and recording relevant data, including impact energy, absorbed energy and fracture behavior. This experience should include one year of experience with Impact Towers. Demonstrated ability with the following software: MATLAB, SOLIDWORKS, CATIA, 3D Experience and ImageJ. \$69,326/yr. - \$81,022/yr.

Reply to:

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