

## 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 #91796 in the 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. Explores subject area and defines scope and selection of problems for investigation through conceptually related studies or series of projects of lesser scope. Performs simulation development & model validation for over-molding protocols in aircraft structures. Perform structural analysis of Fiber Patch Placement manufacturing and design optimization. Work with thermoplastic induction welding process modelling to aid manufacturing optimization. Write technical reports and other documentation. 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. Develops model concepts and approaches as an individual researcher and acts independently on technical matters. Conducts structural and thermal Finite Element Analysis of advanced composite materials, such as laminated composites, thermoplastic composites and monolithic composites. Works with rapid rate production manufacturing techniques, Python scripting for simulation data processing, CAD modelling in CATIA V5 & 3DEXPERIENCE platforms, Automated Fiber Placement, and Injection & over-molding manufacturing techniques. Collaborates with users and principal investigators on design, analysis, application, and reporting of research projects; provides technical leadership and technique consultation. 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. Serves as investigator on single or multiple projects of complexity and scope consistent with above criteria,

and/or manages a research unit. Maintains currency of knowledge with respect to relevant state-of-the-art technology, equipment, and/or systems.

MINIMUM REQUIREMENTS: Bachelor's degree in Mechanical Engineering, Aerospace Engineering or related STEM field. 9 months of experience working in a research laboratory with the following: laminated composites, thermoplastic composites, structural and thermal Finite Element Analysis, monolithic composites, Rapid rate production manufacturing techniques, Python scripting for simulation data processing, CAD modelling in CATIA V5 & 3DEXPERIENCE platforms, Automated Fiber Placement, Injection & over-molding manufacturing techniques.

\$79,000/yr. - \$118,019/yr.

Reply to:

Raegan Brown  
HR Generalist  
National Institute for Aviation Research  
Wichita State University  
1845 Fairmount  
Wichita, Kansas 67260