Definition of Class
This is a non-supervisory position in which the incumbent is responsible for determining requirements necessary to modify, install, test, and analyze data associated with various research activities of the department. This position collaborates with both researchers and other engineers. The incumbent interprets the American Society of Mechanical Engineering standards and applies them in the installation and testing phase. Some travel may be required.

Examples of Work Performed
Determines necessary steps to modify test models using modern CAD/CAM processes by analyzing suitability of current models hardware to perform research task, redesigning models using CAD program based on analysis, and evaluating the end product of modifications to models.

Installs test models hardware in testing facility.

Evaluates safety factors associated with testing of models.

Integrates instrumentation suite associated with testing parameters.

Performs testing and analysis on models performance by developing testing sequences, setting up all accessory equipment, and running test sequence using labView programs.

Records and assembles testing data into appropriate format for analyzing.

Responsible for setting up experimental research and integrating research duties for graduate students.

Interprets the American Society of Mechanical Engineering standards and applies standards in the installation and testing phase.

Adheres to the University Quality System.

Performs similar or related duties as assigned or required.

Essential Functions
These essential functions include, but are not limited to, the following. Additional essential functions may be identified and included by the hiring Department.

1. Evaluates the design of models and gives recommendations for improvement to researchers and/or other engineers.

2. Installs test models hardware in testing facility.

3. Performs testing and analysis on models performance.

4. Interprets the American Society of Mechanical Engineering standards and applies them in the installation and testing phase.

Minimum Qualifications
These minimum qualifications have been agreed upon by Subject Matter Experts (SMEs) in this job class and are based upon
a job analysis and the essential functions. However, if a candidate believes he/she is qualified for the job although he/she does not have the minimum qualifications set forth below, he/she may request special consideration through substitution of related education and experience, demonstrating the ability to perform the essential functions of the position. Any request to substitute related education or experience for minimum qualifications must be addressed to The University of Mississippi’s Department of Human Resources in writing, identifying the related education and experience which demonstrates the candidate's ability to perform all essential functions of the position.

**Physical Requirements:** These physical requirements are not exhaustive, and additional job related physical requirements may be added to these by individual agencies on an as needed basis. Corrective devices may be used to meet physical requirements.

- **Physical Exertion:** The incumbent may be required to lift up to approximately 50 pounds.

- **Vision:** Requirements of this job include close vision and color vision.

- **Speaking/Hearing:** Ability to give and receive information through speaking and listening.

- **Motor Coordination:** While performing the duties of this job, the incumbent is frequently required to stand. The incumbent is periodically required to talk and hear. The incumbent is occasionally required to sit; walk; use hands to finger, handle or feel objects, tools or controls; climb or balance; reach with hands and arms; and stoop, kneel, crouch or bend.

**Experience/Educational Requirements:**

- **Education:** Bachelor’s Degree from an accredited four-year college or university in Mechanical Engineering or a related field.

  AND

- **Experience:** One (1) year of experience related to the above described duties.

- **Substitution Statement:** Related experience may be substituted for education, on a basis set forth and approved by the Department of Human Resources.

**Interview Requirements**

Any candidate who is called for an interview must notify the Department of Human Resources in writing of any reasonable accommodation needed prior to the date of the interview.

Rev. 04/01/2015

*The University of Mississippi is an EOE/AA/Minorities/Females/Vet/Disability/Sexual Orientation/Gender Identity/Title VI/Title VII/Title IX/504/ADA/ADEA employer. The University complies with all applicable laws regarding equal opportunity and affirmative action and does not unlawfully discriminate against any employee or applicant for employment based upon race, color, gender, sex, sexual orientation, gender identity or expression, religion, national origin, age, disability, veteran status, or genetic information. The University of Mississippi is an “at will” employer. This job description does not constitute an employment contract or negate “at will” employment.*