Definition of Class
This is a non-supervisory position in which the incumbent frequently exercises discretion and independent judgment in determining instrument and equipment needs for the execution of scientific projects aboard marine research vessels. Incumbent utilizes specialized knowledge in designing fabricating, maintaining, operating and transporting scientific instruments and equipment, and works under the general supervision of the Associate Director for Research Programs.

Examples of Work Performed
Makes recommendations to researchers regarding equipment needed for execution of scientific projects.

Works aboard marine research vessels, providing assistance to researchers with operation and maintenance of marine research equipment.

Performs equipment repairs and maintenance of marine research vessel, both dockside and underway.

Constructs, installs, and repairs scientific instruments and equipment using various shop equipment.

Operates lathes, milling machines, drills, welding, soldering equipment, and woodworking machines. Performs conventional, MIG, and TIG welding.

Makes necessary repairs, adjustments or calibrations to equipment and malfunctioning instruments using various hand and power tools.

Modifies electrical circuits and programming of computerized digital-controlled machinery.

Designs and machines specialized, precision parts.

Inspects and tests completed work for accuracy and performance as specified in instructions.

Assists in training new personnel.

Performs related or similar duties as required or assigned.

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. Determines instrument and equipment needs for execution of scientific projects aboard marine research vessels.
2. Designs, fabricates, maintains and transports scientific instruments and equipment.
3. Works aboard marine research vessels, providing assistance to researchers with operation and maintenance of marine research instruments and equipment.
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 approximately 100 pounds or more.

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 regularly required to stand; talk or hear; use hands to finger, handle or feel objects, tools or controls; and reach with hands and arms. The incumbent is frequently required to walk; climb or balance; and stoop, kneel, crouch or crawl and sit.

Experience/Educational Requirements:

Education: Associate’s Degree in Mechanical Engineering or related field.

AND

Experience: Five (5) years of experience related to the above described duties.

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.

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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.