

# MORGAN STATE UNIVERSITY

## JOB SPECIFICATION



### **ENGINEERING TECHNICIAN II**

Class Code: N1025  
Pay Range: 11

FLSA Code: N/E (Non-Exempt)

### **JOB SUMMARY**

Under general supervision, performs a substantial variety of moderately complex technical engineering support work in the particular specialty field requiring knowledge of engineering practices. Technicians at this level perform tasks for which developed procedures have not been standardized. This job is typically found in an academic support or research environment.

### **PRIMARY DUTIES**

1. Fabricates, assembles and tests a variety of moderately complex mechanical devices.
2. Selects and modifies test equipment and procedures in accordance with test plans developed by others.
3. Researches technical literature; analyzes technical data, applies and adapts a wide variety of established methods of computation and analysis.
4. Operates a variety of electromechanical instruments; mounts test items and sets up sensors and recording devices; modifies test procedures and equipment as instructed.
5. Monitors recorded data on equipment performance. Visually examines equipment to determine apparent damage or change and reports findings.
6. Assists in design modifications by compiling related design, specifications, and materials data pertinent to specific items of equipment or component parts.
7. Assists in the preparation of reports, analyses, technical papers, and correspondence using manual or computer assisted techniques.

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8. Ensures the operational readiness and safety of machinery, tools and equipment; performs maintenance and repairs on fabricated and assembled equipment.
9. Operates a variety of hand and power tools or mechanical equipment specific to the requirements of the job.

**Note:**

The intent of this list of primary duties is to provide a representative summary of the major duties and responsibilities of this job. Incumbents perform other related duties assigned. Specific duties and responsibilities may vary based upon departmental needs.

**MINIMUM QUALIFICATIONS**

**EDUCATION:** High School Diploma or GED.

**EXPERIENCE:** Four years in non-professional technical work in engineering or an allied area.

**REQUIRED KNOWLEDGE/SKILLS/ABILITIES**

General knowledge of the basic principles of engineering, and the basic materials, elements, or products in the area of specialization. Skill in the application of basic principles of applied arithmetic, algebra, trigonometry, and the system of measures applicable to the area of specialization; in operating equipment applicable to the job according to standard safety procedures; in reading and interpreting technical specifications and drawings; in setting up and calibrating instruments and preparing instruments for testing. Ability to communicate effectively both orally and in writing; to follow oral and written instructions; to use personal computers, to fabricate and assemble electromechanical and structural components and equipment from drawings and specifications; to work in, on, around, over and under fixed equipment and machinery; to manipulate heavy equipment, tools, and supplies and/or exert force up to 50 lbs.; to concurrently manipulate multiple controls on equipment and machinery; to work in hazardous or irritating environments, confined spaces, and adverse weather or temperature conditions; to wear and work in personal protective equipment.

**OTHER:**

Except for qualifications established by law, additional related experience and formal education in which one has gained the knowledge, skills, and abilities required for full performance of the work of the job class may be substituted for the education or experience requirement on a year-for-year basis with 30 college credits being equivalent to one year of experience.

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**CONDITIONS OF EMPLOYMENT**

Candidates selected for employment may be subject to medical inquiries and/or medical examinations to determine ability to perform the job. Valid Maryland Non-commercial Class C or equivalent driver's license may be required.