



## University System of Maryland Job Class Specification

**TITLE: EEG TECHNICIAN III**  
**FLSA: NONEXEMPT**  
**EEO6: H50**  
**IPEDS-SOC: P-292099**

**JOB CODE: N11EG3**  
**JOB TYPE: INST SPECIFIC UMAB**  
**JOB FAMILY/SERIES: MED**

**APPROVED BY:**  
**Chancellor Donald N. Langenberg**

**EFFECTIVE DATE: 07/01/1996**

### **JOB SUMMARY**

Under general supervision, performs electroencephalography (EEG) recordings at the senior level and acts as a resource to lower level technicians.

### **PRIMARY DUTIES**

1. Performs EEG recordings at the senior level, and acts as lead technician on complex cases.
2. Performs evoked potential testing and neurodiagnostic monitoring in epilepsy.
3. Assists in training lower level EEG technicians and in orienting medical personnel such as residents and fellows.
4. Assists in collecting and analyzing data for research studies.
5. Performs moderately complex maintenance of the EEG machine and related equipment, apparatus, and devices.

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 and course work in biological and chemical science

**EXPERIENCE:** Three years directly-related work experience including one year performing evoked potential testing

OTHER:

REQUIRED KNOWLEDGE/SKILLS/ABILITIES

Thorough knowledge of the principles, theory, and applications of EEG. Thorough knowledge of basic electronics, brain anatomy, physiology, and clinical neurology as they apply to EEG. Skill in making rapid and accurate arithmetic calculations. Skill in the running and maintenance of the EEG machine and related equipment, apparatus, and devices. Skill in recognizing instrument malfunctions and measures to eliminate them. Skill in fabrication, placement, and application of EEG electrodes, in the measurement of electrode resistance or impedance, and in the preparation of electrode paste. Skill in recognizing and identifying the various types of artefacts and the measures to eliminate them and the indications for the choice of time constants and filters. Skill in recognizing abnormalities in EEG patterns which indicate desirability of using non-standard procedures in the EEG recording. Skill in recognizing cerebral death. Ability to lead and train others. Ability to communicate effectively both orally and in writing. Ability to establish and maintain effective working relationships with patients, faculty, staff, and students. Ability to walk and stand at least 50% of the time, to push and maneuver large and bulky portable testing equipment, and to lift and position patients. Ability 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.

**CONDITIONS OF EMPLOYMENT**

Candidates selected for employment may be subject to medical inquiries and/or medical examination to determine ability to perform the job.