

## SENIOR MEDICAL TECHNOLOGIST (NEUROPHYSIOLOGY)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, incumbents in this class are responsible for performing long term video EEG monitoring on patients with scalp and surgically implanted electrodes and perform other stimulation studies to determine the origin of seizures in patients. Incumbents interact with patients during seizures, interview the patients, and perform cognitive, memory and speech function tests during and following all seizures. Supervision is not a feature of this class, however, technical direction may be given to nursing staff or residents. Does related work as required.

### EXAMPLES OF WORK: (Illustrative Only)

Performs a variety of tests including long term video EEG monitoring, evoked potentials on patients with scalp and intracranially placed electrodes (depth electrodes and/or grids), telemetry, overnight studies, and brain mapping;

Interacts with patients during seizures, interviews patients, and performs tests of cognitive, memory and speech function during and following all seizures;

Monitors the patient's neurological, cardiac and respiratory functions and behavior throughout the recording period and provides appropriate medical care during medical emergencies that may arise during the session;

Transcribes digital EEG data to hardcopy printouts and correlates video of ictal events, marking appropriate notations on the tracing;

Reviews all seizures and archives selected seizures to a special tape;

Performs EEG recordings during special studies such as sodium amytal testing, positron emission tomography, single photon computed tomography, and sodium pentothal studies;

Performs electrocorticography from the exposed cerebral cortex in the operating room;

Calibrates, adjusts and maintains equipment in clean operating condition;

Repairs, replaces and troubleshoots instrument parts and equipment as needed.

### FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES:

Thorough knowledge of modern techniques and procedures used in performing electroencephalographic and long term video monitoring; thorough knowledge of the uses of the following evaluative tests: WADA, Pet Scan, Ictal SPECT Scan, MRI Scan, CT Scan; good knowledge of neuroanatomy and neurophysiology; knowledge of medical terminology with emphasis on the epilepsies and other neurological disorders; ability to distinguish abnormal brain waves; skill in the operation, maintenance and repair of complex electronic units used in EEG procedures; ability to understand, follow and convey complex technical instruction; sound professional judgment; accuracy; thoroughness; dependability; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: High school or equivalency diploma and either: (a) one year of technical experience performing EEG recordings; or (b) certification by the American Board of Registration of Electroencephalographic and Evoked Potential Technologists (ABRET) in at least one area: electroencephalographic (EEG), evoked potentials or intraoperative monitoring, or by the Board of Registration of Polysomnographics Technologists (BRPT) as a polysomnographic technologist.

West. Co.  
J.C.: Non-Competitive  
NASE  
1

Job Class Code: C2799  
Job Group: X