

# Electroneurodiagnostic Technologist



## Occupational Description

Electroneurodiagnostic (END) technology is the medical diagnostic field devoted to the recording and study of the brain/nervous system electrical activity. END technologists possess the knowledge, skills, and attributes to obtain interpretable recordings of patients' nervous system function. They work in collaboration with medical researchers, clinicians, physicians, and other health professionals.



## Job Description

The END technologist can be involved in one or more of the following diagnostic procedures: electroencephalography (EEG), evoked potential (EP), polysomnography (PSG), and nerve conduction studies (NCS). The technologist takes the medical history; documents the clinical condition of patients; understands and employs the optimal use of EG, EP, PSG, and NCS equipment; and applies adequate recording electrodes. Among other duties, the END technologist also understands the interface between EEG, EP, PSG, and NCS equipment and other electrophysiological devices; recognizes and understands EEG/EP/NCS/sleep activity displayed; manages medical emergencies in the laboratory; and prepares a descriptive report of recorded activity for the interpreting physician. The responsibilities of the technologist may also include laboratory management and the supervision of END technologists.



## Employment Characteristics

END personnel work primarily in neurology-related departments of hospitals, but many also work in clinics and the private offices of neurologists and neurosurgeons. Growth in employment within the profession is expected to be greater than average, owing to the increased use of EEG and EP techniques in surgery; in diagnosing and monitoring patients with epilepsy; and in diagnosing sleep disorders. Technologists generally work a 40-hour week, but may work 12-hour days for sleep studies and be on-call for emergencies and intraoperative monitoring. According to the American Society of Electroneurodiagnostic Technologists, Inc (ASET), 2003 entry-level salaries average \$34,726.



## Educational Programs

**Length.** Programs may be 12 to 24 months and are typically integrated into a community college-sponsored program leading to an associate degree.

**Prerequisites.** High school diploma or equivalent.

**Curriculum.** The curriculum includes anatomy, physiology, and neuroanatomy (with major emphasis on the brain), as well as instrumentation, personal and patient safety, recording techniques, clinical electroneurodiagnostics, and correlations. Clinical rotations are conducted in medical centers.



## Inquiries

### Careers

American Society of Electroneurodiagnostic Technologists  
426 W 42nd St  
Kansas City, MO 64111  
816 931-1120  
816 931-1145 Fax  
E-mail: [info@aset.org](mailto:info@aset.org)

### Certification/Registration

Executive Director  
American Board of Registration of Electroencephalographic and Evoked Potential Technologists (ABRET)  
1904 Croydon Dr  
Springfield, IL 62703  
217 553-3758  
217 585-6663 Fax  
E-mail: [abreteo@aol.com](mailto:abreteo@aol.com)  
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### Program Accreditation

Commission on Accreditation of Allied Health Education Programs (CAAHEP) in collaboration with:  
Joint Review Committee on Education in Electroneurodiagnostic Technology  
c/o CAAHEP  
35 E Wacker Dr #1970  
Chicago, IL 60601  
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