

## ELECTRON MICROSCOPY TECHNOLOGIST I

### NATURE OF WORK

This is specialized technical work in the preparation of biological materials for examination by electron microscope.

Work involves responsibility for preparing and processing histological slides, assisting in the operation and care of electron microscope, and processing electron microscope film. Employees of this class receive in-service training, are expected to undertake courses in electron microscopy, and remain in this class until they receive certification. Work assignments are received from a Senior Technologist, and are reviewed through inspections, reports, and observation of results achieved.

### ILLUSTRATIVE EXAMPLES OF WORK

Performs highly specialized histological laboratory procedures; fixes, processes, stains, examines, and classifies specimens using a variety of fixatives and stains.

Assists Senior Technologists in the operation and care of ultramicrotomes and electron microscopes.

Processes plates and films for developing, rinsing, fixing, washing and drying; prepares chemicals for processing film.

Prepares work records of work accomplished and maintains file of films and reports.

Ensures that an adequate supply of medical supplies are on hand in the unit.

Keeps abreast of the latest techniques, materials, and equipment of medical laboratory technology.

Performs related work as required.

### REQUIREMENTS OF WORK

Experience in a medical or related laboratory; graduation from high school supplemented by completion of an approved course in laboratory techniques qualifying for registration; or any equivalent combination of experience and training which provides the following knowledge, abilities, and skills:

Knowledge of the methods, materials, and techniques of laboratory technology.

Knowledge of the basic principles of chemistry and histology as related to laboratory technology.

Knowledge of the hazards and safety precautions involved in the work.

Knowledge of the literature and current developments in the field of laboratory technology.

Some knowledge of the operation of equipment used in an electron microscopy unit.

Some knowledge of electron photomicrography techniques, including the processing and developing of film; or the ability to acquire such knowledge during a training period.

Ability to learn the operation of electron microscope equipment and its adjustments and upkeep.

Ability to understand and carry out moderately complex oral and written instructions.

Skill in the use of laboratory equipment and in the performance of required tests and examinations.

Eyesight sufficiently strong to permit extended microscopy work and with normal colour perception.

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