

HIGHER EDUCATION PERSONNEL BOARD

Specification for Class

Class Code: 4738

ELECTRON MICROSCOPE TECHNICIAN SPECIALIST

Abolished Effective June 1, 2005

BASIC FUNCTION

Develop and apply new techniques or procedures applicable to diagnostic ultrastructural pathology or research. Direct the work of and instruct post-doctoral fellows, students or student helpers and/or direct the operation of an electron microscopy laboratory.

DISTINGUISHING CHARACTERISTICS

Perform and apply advanced, specialized electron microscopy techniques making independent examination of material. Serve as technical consultant to faculty and investigators with diagnostic problems or research projects.

TYPICAL WORK

Perform special or difficult ultrastructural procedures such as autoradiography, immunoelectron microscopy, serial sectioning, cryo-thin sectioning, cryo-fracture, ultrastructural enzyme cytochemistry, shadowing, negative staining, and scanning electron microscopy;

Provide technical consultation to faculty and investigators with diagnostic problems or research projects involving the use of the electron microscopy laboratory;

Instruct and direct work operations; oversee the operation of, training, and maintenance of an electron microscope; make minor repairs and determine service needs;

Develop and implement new procedures; conduct literature searches and adapt techniques to specific clinical and/or research needs;

Maintain workload recording system; purchase and maintain laboratory equipment such as ultramicrotomes, knife makers, balances, and dark room equipment;

Instruct post-doctoral fellows, technicians or student helpers in laboratory procedures;

Perform related duties as required.

MINIMUM QUALIFICATIONS

A Bachelor's Degree in a science-related field which includes coursework in such areas as chemistry, biology, geology, natural sciences, or related sciences, AND two years of experience in an electron microscopy laboratory OR equivalent education/experience.

New Class: 10-6-89