

## SENIOR LABORATORY TECHNICIAN (II-CARDIAC NON-INVASIVE TESTING)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, an incumbent of this class performs special procedures related to cardiological testing to provide medical specialists with data in diagnosing heart disease and disorders using highly sophisticated techniques and equipment in order to monitor the movement, sound and activity of the heart. Work involves the administration of tests such as: electrocardiograms, echocardiograms, halter monitoring and stress tests. Responsibility also involves maintaining adequate supplies and ensuring the proper maintenance and repair of equipment by the Biomedical Engineering staff. This class is subject to shift assignment and on-call duty to handle emergency situations. Supervision may be exercised over a number of lower level EKG technicians. Does related work as required.

### EXAMPLES OF WORK: (Illustrative Only)

Prepares patient for phonocardiograph testing;

Operates phonocardiography instrumentation and correlates dual heart sounds with electrocardiographic recordings, as well as those of chest wall movement to determine complex cardiac abnormalities;

Develops, cuts and mounts phonocardiography film;

Records all aspects of phonocardiography testing;

Prepares patient for vectorcardiography testing;

Operates vectorcardiography equipment which provides three dimensional presentation of cardiac electrical activity and allows for the diagnosis of intraventricular conduction distances and myocardial infarction patterns;

Records, develops, cuts and mounts all vectorcardiographic tracings;

Prepares patients for echocardiography testing;

Operates echocardiography equipment to record ultrasound from the heart walls, valves and support structures;

Records all test results to assure diagnosis of structure and valve abnormalities and plural and pericardial effusions;

Develops, cuts and mounts echocardiography results;

Conducts stress tests, using accepted procedures, and monitors and results;

Records all results and prepares appropriate patient reports;

Performs Systolic Time Interval and Apex Cardiography testing when patients condition so indicates;

EXAMPLES OF WORK: (Illustrative Only) (Cont'd.)

Supervises lower level technicians in the performance of EKG, halter monitor and stress tests;

Ensures an adequate store of supplies used in the Non-Invasive Lab by reporting when inventory runs low;

Informs Bio-Medical Engineering staff of equipment failure and conducts follow-up on maintenance and repairs;

Attends meetings, conferences and seminars as required.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of modern techniques and procedures used in all phases of Non-Invasive Cardiology; skill in the operation of the standard and special laboratory equipment and apparatus; ability to understand, follow and convey complex technical instruction; ability to train and supervise the work of others; intellectual integrity; accuracy; thoroughness; dependability; physical condition commensurate with the requirements of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: High school or equivalency diploma and either: (a) five years experience in a medical, hospital or health care facility involving patient care related duties, two years of which must have involved performing electrocardiograms (EKG's), halter monitoring and stress tests; or (b) an Associate's Degree\* in a patient care related field and three years experience as described in (a) which must have included the two years of specialized experience; or (c) a Bachelor's Degree\* in a patient care related field and one year of the specialized experience; or (d) a satisfactory equivalent combination of the foregoing training and experience.

SUBSTITUTION: Satisfactory completion of 60 college credits\* in a patient care related field or of a 1-year EKG certificate program may be substituted for the Associate's Degree\*.

\*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.