

SENIOR LABORATORY TECHNICIAN (II-INVASIVE CARDIOLOGY)

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 to diagnose and treat heart disease and disorders using highly sophisticated equipment in order to monitor the movement, sound and activity of the heart during cardiac catheterization procedures. This includes assisting physicians during procedures and performing and interpreting various cardiac measurements including: blood gases, EKG's, cardiac outputs, hemodynamic tracings, blood pressure, etc. 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 lower level technicians. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Monitors adult and pediatric patients undergoing cardiac catheterization, including routine and emergency angioplasties, neonatal and pediatric emergencies;

Maintains, troubleshoots and sets up all equipment utilized in the cardiac catheterization lab;

Performs blood gas analyses during procedures;

Records and interprets EKG's;

Assists physicians in the performance of cardiac outputs when indicated;

Monitors patients cardiac rhythms during procedures;

Analyzes hemodynamic tracings obtained during cardiac catheterization in selected patients;

Assists physicians during procedures when indicated;

Sets up sterile tables when indicated;

Performs calculations and recordings of injection fractions;

Compiles statistics for fiscal services;

Collects and distributes all X-Ray badges to cardiac catheterization lab staff and returns them to the physicist;

Responsible for all outside orders for blood gas analysis and cine materials;

Supervises lower level technicians in the performance of tests;

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

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

Attends meetings, conferences, in-service training, and seminars as required.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Good knowledge of cardiac anatomy and physiology; good knowledge of human physiology; good knowledge of modern techniques and procedures used in all phases of cardiac catheterization; knowledge of cardiovascular diseases and pathophysiology; knowledge of fundamental mathematics; knowledge of basic asepsis and sterile techniques; skill in the use of complex mechanical and electronic laboratory equipment; skill in diagnostic techniques and patient assessment; ability to understand, follow and convey complex technical instruction; ability to train and supervise the work of others; ability to understand basic principles involved in all cardiac functions; ability to perform precise laboratory measurements; ability to operate and maintain delicate equipment; ability to analyze and interpret hemodynamic data; 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) five years of experience in a medical, hospital or health care facility involving patient care related duties, including the performance of EKG's, stress tests and halter monitoring, two years of which must have involved assisting and monitoring cardiac catheterization procedures; or (b) satisfactory completion of 60 credits* in a patient care related field and three years of 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 as stated in (a); or (d) a satisfactory equivalent combination of the foregoing training and experience.

SUBSTITUTION: Possession of the Registered Cardiovascular Technologist credential, RCVT, with a specialty in invasive technology, may be substituted for one year of the specialized experience, but all candidates must have at least one year of the specialized experience.

*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.