

## **RADIOLOGICAL TECHNOLOGIST**

### **NATURE OF WORK**

This is specialized technical work in the operation of x ray equipment within the Animal Care Unit of the Faculty of Medicine.

Work involves taking and developing radiographs and operating fluoroscopic and ultrasound equipment and includes responsibility for participating in research and experimentation procedures. Although the radiographic work is repetitive in nature, it involves a wide variety of types of radiography and hence requires a working knowledge of the use of equipment and of the density of animal bodies and their anatomical terminology, as well as ability to use independent judgement based on this knowledge to achieve satisfactory results. Research and experimental work is performed under the supervision of a technical superior; however, radiographic work is performed independently but in accordance with established procedures. Work is reviewed on completion for results obtained.

### **ILLUSTRATIVE EXAMPLES OF WORK**

Sets up and operates stationary x-ray equipment; positions animal in most suitable position, taking care to avoid distortion of organs; loads film holders; determines length of exposure according to prescribed tables; takes x-rays.

Develops and washes film; prepares chemical solutions for such processes; evaluates x-ray for clarity and quality; takes additional x-rays when necessary.

Operates fluoroscopic equipment; prepares I.V.P. and barium swallows; reviews videotapes and records observations.

Assists in experimental work in ultrasound developing.

Participates in research and experimentation procedures; anaesthetizes various animals; assists in surgical procedures; operates physiological pressure monitor.

Maintains daily work records; prepares files to identify films for each animal and project.

Maintains liaison with University officials on matters regarding radiation safety by completing radiation swab tests within the Animal Care Unit and issuing radiation badges.

Performs routine maintenance and minor adjustments to the equipment used.

Requisitions equipment, supplies and repairs services for the x-ray unit.

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

Illustrates to staff members the various techniques utilized within radiology.

Performs related work as required.

### **REQUIREMENTS OF WORK**

Experience in the operation of diagnostic x-ray and fluoroscopic equipment; graduation from high school supplemented by completion of an approved course in Radiological Technology qualifying for registration and by completion of course work in ultrasound technology; or any equivalent combination of experience and training which provides the following knowledge, abilities and skills:

Knowledge of the methods, materials and techniques of radiography including processing and developing radiographs.

Knowledge of various types of x-ray equipment, their capabilities and usage.

Knowledge of the occupational hazards and safety precautions of the work.

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

Knowledge of chemicals and contrast media used in radiology.

Some knowledge of animal anatomy, physiology and pathology.

Some knowledge of sterile techniques and procedures.

Ability to take a wide variety of x-ray photographs.

Ability to establish and maintain effective working relationships with faculty members and staff.

Skill in operating x-ray machines and in developing films.

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