

MEDICAL PHOTOGRAPHER

NATURE OF WORK

This is advanced skilled technical work in varied phases of medical photography.

Work involves taking still and motion pictures and operating the television camera on a wide variety of medical subjects. Work includes processing of colour and black and white film. Employees of this class apply specialized knowledge to general medical fields in the taking of pictures and develop their own methods and procedures. Work is performed under the general direction of a technical superior and is reviewed by observation of results obtained.

ILLUSTRATIVE EXAMPLES OF WORK

Operates a variety of cameras and other photographic equipment to provide illustrative and visual evidence for scientific and medical publications, records, research and teaching purposes.

Performs general and specialized medical photography in studio or on location; takes photographs, microphotographs and motion pictures of hospital and clinic patients, surgical procedures and treatment methods, anatomical structures, gross and minute specimens, plant and animal tissues and physiological and pathological processes.

Uses special techniques such as time lapse and high speed pictures and ultraviolet or infrared light to produce visible records of normally invisible phenomena; designs and may build special equipment; modifies processing formulae.

Prepares chemicals for processing photosensitive materials to make transparencies, lantern slides, photomontages, colour prints and enlargements using projection technique.

Make copies of x-ray and similar film as well as various types of photographic prints with enlargers and printers; photo finishes and mounts photographic material.

Assists in the training of medical photographer trainees by illustrating procedures and checking completed work to ensure that established standards are being maintained.

Edits, titles and splices film; makes colour and black and white slides; maintains file of negatives and other records.

Maintains all equipment, requisitions materials, supplies and equipment.

Operates closed circuit television cameras and videotape recorders.

May develop new methods for the presentation of scientific data.

May be required to appear and testify at court proceedings.

May be required to assist in some areas of graphic production and preparation, mounting and setting up display material.

Performs related work as required.

REQUIREMENTS OF WORK

Considerable experience in general and medical photography; graduation with a degree from a four-year college or university with major course work in photography including courses in the sciences; or the successful completion of an approved course of study and training qualifying for certification as a Biological Photographer; or any equivalent combination of experience and training which provides the following knowledge, abilities and skills:

Considerable knowledge of the principles, methods, practices, equipment and materials of modern photography including still, motion, colour, black and white, scientific, patient and line photography.

Considerable knowledge of the physical properties of various types of film and the suitability of each for various kinds of photography.

Knowledge of the medical-legal responsibilities associated with medical photography.

Knowledge of the operation of closed circuit cameras and videotape recorders.

Knowledge of medical terminology as it pertains to medical photography.

Some knowledge of gross anatomy, histology and other branches of medical science.

Ability to take a variety of still and motion pictures.

Ability to plan special photographic features for medical and research purposes.

Ability to deal with and relate to patients and an appreciation of the confidential nature of the material.

Ability to establish and maintain effective working relationships with faculty, students and other employees.

Skill in the use, care and demonstration of photographic equipment.

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