



Health Physicist II

Salary Group: B24

Class Code: 4392

CLASS TITLE	CLASS CODE	SALARY GROUP	SALARY RANGE
HEALTH PHYSICIST I	4390	B22	\$57,614 - \$93,138
HEALTH PHYSICIST II	4392	B24	\$65,104 - \$106,634
HEALTH PHYSICIST III	4394	B26	\$76,530 - \$129,430

GENERAL DESCRIPTION

Performs advanced (senior-level) health physics and radiation control work. Work involves coordinating inspections, including surveying or investigating facilities using sources of radiation to ensure compliance with radiation safety and environmental laws; and evaluating permit and license application requests for public health and safety and environmental impact. May supervise the work of others. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment.

EXAMPLES OF WORK PERFORMED

Coordinates inspections and investigations of installed x-ray equipment, non-ionizing radiation devices, and facilities where radioactive materials are used or stored.

Coordinates health physics activities, and conducts research and development.

Coordinates the processing of radiation control permits and licenses, sealed radioactive source and device approvals, and financial security estimates for decommissioning.

Develops and provides technical guidance on guidelines, rules, policies, and procedures based on health physics knowledge, radiation control functions, and statutory authority.

Develops, recommends, and implements radiation safety and emergency response policies, procedures, and guidelines.

Ensures compliance with applicable radiation control laws and regulations for protection of the public and the environment against harmful effects of radiation.

Measures emissions from different types of radiation and radioactive materials; determines and predicts the movement of radioactivity through the environment; and evaluates plans and facilities for radiological safety of equipment, processes, and the environment.

Performs and reviews emergency response planning and implementation activities for radiological emergency events or for radiological emergencies involving transportation or terrorist activities.

Performs and/or coordinates scientific and technical reviews of radiation safety plans, operations, and facilities.

Performs risk assessments based on quantitative relationships between radiation exposure and biological damage.

Prepares and approves authorizations, permits, and licenses based on regulatory standards for uses of radiation and radiation exposure to the public and the environment.

Prepares and approves correspondence, technical reports, environmental assessments, impact statements, or programmatic assessments.

May perform quality assurance reviews of inspection reports and permitting and licensing actions to ensure compliance with radiation control, public health and safety, and environmental laws and regulations.

May consult and coordinate with representatives of other state and federal radiation control, security, and emergency agencies; special interest groups; the public; or department personnel on radiation and environmental issues.

May participate in emergency drills in cooperation with other state and federal agencies.

May supervise the work of others.

Performs related work as assigned.

GENERAL QUALIFICATION GUIDELINES

EXPERIENCE AND EDUCATION

Experience in health physics, radiation sciences, or nuclear engineering work is preferred. Graduation from an accredited four-year college or university with major coursework in health physics, nuclear or environmental engineering, environmental or natural sciences, chemistry, or a related field. Experience and education may be substituted for one another.

KNOWLEDGE, SKILLS, AND ABILITIES

Knowledge of radiation control, radiological health, environmental laws and regulations, and radiation safety practices and techniques.

Skill in the use of radiation detection, monitoring, and measuring instruments; in the collection of environmental samples; in radiological computer applications; and in the use of research techniques.

Ability to interpret and use radiation shielding designs and radiological and statistical data, to interpret laws and regulations, to apply health physics and other scientific principles, to detect and evaluate radiation and public health hazards, to communicate effectively, and to supervise the work of others.