



# Health Physicist I

Salary Group: B22

Class Code: 4390

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 complex (journey-level) health physics and radiation control work. Work involves conducting inspections, investigations, or surveys to ensure compliance with health and safety and environmental laws; and evaluating permit and license application requests for public health and safety and environmental impact. May provide guidance to others. Works under general supervision, with moderate latitude for the use of initiative and independent judgment.

## EXAMPLES OF WORK PERFORMED

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

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

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

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

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

Measures, monitors, and evaluates 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.

Evaluates design of sealed sources and devices containing radioactive materials, and evaluates radiation safety and operating manuals.

Analyzes shielding designs of radiation facilities.

Provides oversight of industrial radiography certification processes.

Assists in performing risk assessments based on quantitative relationships between radiation exposure and biological damage.

May coordinate health physics activities, and may conduct research and development.

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 provide guidance to 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 provide guidance to others.