Epidemiologist

CLASS TITLE	CLASS CODE	SALARY GROUP	SALARY RANGE
EPIDEMIOLOGIST I	4082	B19	$48,244 - $76,028
EPIDEMIOLOGIST II	4083	B21	$54,278 - $87,046
EPIDEMIOLOGIST III	4084	B23	$61,184 - $99,658
EPIDEMIOLOGIST IV	4085	B25	$69,572 - $114,099

GENERAL DESCRIPTION

Performs epidemiological work involving the collection, analysis, management, and reporting of data related to epidemiological investigations or studies related to public health events, interventions, prevention strategies, and policies.

EXAMPLES OF WORK PERFORMED

Participates in analyzing, planning, developing, coordinating, and conducting specific epidemiological investigations or studies.

Abstracts epidemiological health data from the medical records of private and public health physicians and hospitals.

Collects epidemiological data for the surveillance of specific diseases and conditions, analyzes data, and summarizes results of analysis.

Disseminates the results of investigations, special studies, and surveillance; and prepares written and oral reports and presentations.

Maintains disease databases and analyzes epidemiological data through the use of statistical measures.

Arranges for the cooperative use of epidemiological data with other agencies, states, and national organizations such as the U.S. Centers for Disease Control and Prevention.

Works with other health personnel in the control of public health events, interventions, prevention strategies, and policies.

Performs related work as assigned.

DESCRIPTION OF LEVELS

Examples of work and descriptions are meant to progress through the levels. For example, an employee at level IV may also perform work listed within the previous levels.

***Note:** Factors that may distinguish between journey and senior levels include the degree of independence in performing the work; the complexity of the work; the scope of responsibility;*

the size, nature, complexity, scope, and impact of the work; and the employee's related experience, education, and certifications. Employees at the journey level may independently perform the full range of work identified within current level or may assist others performing work of greater complexity. Senior-level employees (levels II – IV) may perform the full range of work identified in the levels preceding their own, and/or may coordinate, oversee, or direct that work for others.

EPIDEMIOLOGIST I: Performs moderately complex (journey-level) epidemiological work. Works under general supervision, with moderate latitude for the use of initiative and independent judgment.

EPIDEMIOLOGIST II: Performs highly complex (senior-level) epidemiological work. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may:

- Initiate, review, and provide consultation on epidemiological investigations.
- Propose and initiate epidemiological studies and investigations, including design specification and analysis, and present project results.
- Coordinate epidemiological data collection operations, define database requirements, and provide quality control for data management of epidemiological investigations.
- Determine the appropriate formats for epidemiological reports; and coordinate the technical preparation, graphics design, and compilation of finished reports.
- Develop and implement ongoing training programs related to epidemiology.
- Design, implement, and evaluate surveillance processes for adverse health conditions.
- Report the results of epidemiological investigations to various professional, state, and national organizations such as the U.S. Centers for Disease Control and Prevention.
- Consult on interventions and control measures related to public health in response to epidemiologic findings.

EPIDEMIOLOGIST III: Performs advanced (senior-level) epidemiological work. Works under minimal supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may:

- Evaluate the need for conducting disease surveillance and implement surveillance systems.
- Design processes related to the collection, management, evaluation, and dissemination of data for epidemiologic investigations or studies.
- Develop educational materials, training, and operational manuals used in implementing epidemiology programs.
- Develop and participate in conducting educational programs on major public health issues.
- Prepare and present speeches, technical reports, and briefings.
- Review reports and special publications prepared by staff and oversee the preparation of special and annual reports.
- Provide epidemiological information to the general public and news media.
- Consult with hospital administrators, physicians, state and national organizations, and others on the epidemiology of diseases.

- Monitor compliance of grants and contracts and recommend changes to policies, procedures, and methodology as necessary.

EPIDEMIOLOGIST IV: Performs highly advanced (senior-level) epidemiological work. Works under minimal supervision, with extensive latitude for the use of initiative and independent judgment. Employees at this level may:

- Evaluate need for new epidemiological studies or investigations based on emerging public health trends.
- Develop policies and procedures in the implementation of new epidemiological methodologies or technology and advise staff on their use.
- Conduct risk assessments for public health emergencies and provide emergency response teams with advanced epidemiological knowledge.
- Develop budgets for epidemiological projects, including identifying and preparing for funding opportunities or grants, negotiating grants, and assessing staffing needs.

GENERAL QUALIFICATION GUIDELINES

EXPERIENCE AND EDUCATION

Agencies have the discretion to identify the general or specialized experience, education, or certifications required for positions and may tailor qualification requirements to specifically meet the agency's business needs. Agencies may substitute experience, education, military service, apprenticeships, and relevant credentials for one another, if appropriate and allowed by statute.

KNOWLEDGE, SKILLS, AND ABILITIES

For all levels

- Knowledge of the basic principles and methods of epidemiology and related biostatistics; infectious diseases, adverse reproductive outcomes, cancer, or other chronic diseases; occupational and environmental diseases or injuries; and how causes of disease affect epidemiologic practices.

- Skill in the use of a computer and applicable software, in collecting and abstracting data from health records, in analyzing and interpreting large amounts of data, and in critical thinking.

- Ability to conduct epidemiological studies and investigations, and to communicate effectively.

Additional for Epidemiologist II – IV levels

- Ability to manage projects and prepare reports on epidemiological studies and investigations; to interpret and publishing findings; and to supervise the work of others.

Additional for Epidemiologist III – IV levels

- Ability to plan and direct programs and to plan and report on epidemiological investigations.

Additional for Epidemiologist IV level

- Ability to develop budgets and strategic plans.