[0601](#) – Epidemiologist (Data Scientist)

Major Duties for This Position May Include:

- Consults and collaborates with statistical, data science, and public health professionals in the collection, linkage, processing, coding, classification, and analysis of public health surveillance.
- Evaluates and interprets data extracts and reports from various systems assessing relevant data sources'' validity and reliability to meet project needs to aid stakeholders in understanding and utilizing analytical reports.
- Assists in preparing comprehensive reports that include discussion of substantive issues related to data science methodology for public health surveillance and related applications
- Produces static and interactive data visualizations to communicate findings to internal and external audiences.

Related Competencies

- Program Management
- Collaboration/Partnering
- Data Analysis and Interpretation
- Public Health Knowledge
- Data Collection, Analysis, and Management

Basic Requirements

Bachelor's, graduate, or higher-level degree in major study in an academic field related to the medical field, health sciences or allied sciences appropriate to the work of the position. This degree must be from an educational program from an accrediting body recognized by the U.S. Department of Education (external link) at the time the degree was obtained.

Minimum Qualifications

In additions to meeting the basic requirements above, applicants must meet the minimum qualifications requirement as defined below:

GS-07 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-05 grade level in the Federal Service. Specialized experience for this position includes:

- Assisting with extracting data from surveillance systems, data processing or exploratory data analysis related to epidemiology with emphasis on public health.

Or Education

One full year of graduate level education.

Or Superior Academic Achievement

Based on a bachelor's degree that is demonstrated through class standing (upper 1/3 of class); grade point average (3.0/4.0 overall or 3.5/4.0 in major), or election to membership in a qualifying national scholastic honor society.

Or Combination

You may qualify on a combination of education and experience, the total percentage of experience at the required grade level compared to the specialized experience requirement, as well as the percentage of completed education compared to the educational requirement must equal at least 100 percent.

GS-09 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-07 grade level in the Federal Service. Specialized experience for this position includes:

- Assuring quality of data gathering, analysis and prevention that contributes to integration of informatics, data science and epidemiology with emphasis on public health.

Or Education

Master's or equivalent graduate degree **or** 2 years of progressively higher-level graduate education leading to a master's degree **or** LL.B. or J.D., if related.

Or Combination

You may qualify on a combination of education and experience. The total percentage of experience at the required grade level compared to the requirement, must equal at least 100 percent. Only graduate level education more than the first 18 semester hours (27 quarter hours) may be combined to be considered for qualifying education. **TRANSCRIPTS REQUIRED**.

GS-11 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-09 grade level in the Federal Service. Specialized experience for this position includes:

- Analyzing and creating algorithmic solutions while conducting epidemiological studies related to public health.

Or Education

Ph.D. or equivalent doctoral degree **or** three (3) full years of progressively higher-level graduate education leading to such a degree **or** LL.M, if related. **TRANSCRIPTS REQUIRED**.

Or Combination

You may qualify on a combination of education and experience. The total percentage of experience at the required grade level compared to the requirement, must equal at least 100 percent. Only graduate level education more than the first 36 semester hours (54 quarter hours) may be combined to be considered for qualifying education. **TRANSCRIPTS REQUIRED**.

GS-12 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-11 grade level in the Federal Service. Specialized experience for this position includes:

- Developing automated systems and tools to collect, process, classify and analyze public health surveillance, research, and administrative health data.

Note: There is no substitution of education for specialized experience at the GS-12 level.

GS-13 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-12 grade level in the Federal Service. Specialized experience for this position includes:

- Providing advice on the use of data science tools, methods, and statistical learning models to collect, link, process, code, classify, and analyze public health surveillance, research, and administrative data with innovative integration of informatics and science with public science emphasis.

Note: There is no substitution of education for specialized experience at the GS-13 level.

GS-14 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-13 grade level in the Federal Service. Specialized experience for this position includes:

- Providing expert analysis of data science methods and tools using public health data systems, and clinical and administrative data in evaluating, conducting, and publishing results from epidemiological studies or surveillance activities.

Note: There is no substitution of education for specialized experience at the GS-14 level.

Experience refers to paid and unpaid experience. Examples of qualifying unpaid experience may include volunteer work done through National Service programs (such as Peace Corps and AmeriCorps), as well as work for other community-based philanthropic and social organizations. Volunteer work helps build critical competencies, knowledge, and skills; and can provide valuable training and experience that translates directly to paid employment. You will receive credit for all qualifying experience, including volunteer experience.