[0401]() – Biologist (Data Scientist)

Major Duties for This Position May Include:

- The incumbent serves as a Biologist (Data Scientist) performing data science work and is responsible for gathering data from multiple sources.
- Works as part of a multidisciplinary team to plan and execute epidemiological surveillance of health events, occupational, environmental exposures, injuries, and disease outbreaks that may impact throughout the world.
- incumbent will have responsibility for providing technical consultation and assistance to Federal, State, local and other health agencies concerning various complex biology projects
- Brings and develops expertise in the fields of biology, health science and programming languages as applied to public health research.

Related Competencies

- Collaboration/Partnering
- Continuous Development
- Diversity
- Integrity

Basic Requirements

Degree in biological sciences, agriculture, natural resource management, chemistry, or related disciplines appropriate to the position.

Or

Combination of education and experience that includes courses equivalent to a major, as shown above, plus appropriate experience or additional education.

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:

- Assists scientists in the performance of professional biological work in relation to public health risks
- Analyze information and produce authoritative reports, position papers, briefings, and presentations

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:

- Assists in monitoring data quality issues as they relate to user data products and collaborates with Informatics and Information Technology professionals
- Contributes to creating new data science analytic methods or modifies current methods.

Or Education

2 years of progressively higher-level graduate education leading to a master's degree *or* master's or equivalent graduate degree 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 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:

- Identifies and analyzes public health issues and their impact on public policies or biological studies or surveys
- Participates as the expert in work groups focused on data science and machine learning as applied to public health data

Or Education

Ph.D. or equivalent doctoral degree **or** three (3) full years of progressively higher-level graduate education. **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:

- Analyze scientific data from active population and laboratory-based surveillance
- Conducting biologic investigations and studies
- Produces static and interactive data visualizations to communicate findings to internal and external audiences

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:

- Identifying appropriate biological methods to be used in quality control analysis for respiratory pathogens
- Participating in the syntheses of biological data to be applied toward designing effective prevention programs and practice guidelines

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:

- Performing data science work that requires extraction of knowledge from public health surveillance systems and programs
- Identifies and/or develops innovative and effective approaches and methodologies

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

GS-15 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-14 grade level in the Federal Service. Specialized experience for this position includes:

- Leading academic research centers focusing on the biological and/or statistical analyses of health data using complex surveys and/or data systems
- Developing life cycle cost analyses of projects
- Assessing data elements and the implications of national data standards for the agency's data collection activities

Note: There is no substitution of education for specialized experience at the GS-15 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.