1550 – Computer Scientist (Cybersecurity)

Major Duties Required for This Position May Include:

- Integrates computer science theory and fundamentals with emerging informatics and technology standards, public health practices and policies to strengthen the CDC’s mission.
- Ensures confidentiality, integrity, and availability of systems, networks, and data through the planning, analysis, development, implementation, maintenance, and enhancement of information system security program policies.
- Serves as expert with in-depth knowledge of the theoretical foundations of computer science as it applies to models for the representation and transformation of information structures.
- Reviews IT security programs to assess overall compliance with cybersecurity plans and policies, as well as their alignment with business requirement.

Related Competencies

- Data Analysis and Interpretation
- Data Analysis and Management
- Data and Database Management
- Information Security
- Policy Formulation

Basic Requirements

Bachelor’s degree in computer science.

Or

Bachelor’s degree with 30 semester hours in a combination of mathematics, statistics, and computer science. At least 15 of the 30 semester hours must have included any combination of statistics and mathematics that included differential and integral calculus. All academic degrees and course work must be from accredited or pre-accredited institutions.

Evaluation of Education

Applicants should have sufficient knowledge to understand the fundamental concepts and techniques of computer science. Courses designed to provide an introduction to computer science techniques and methodologies, to problems of system design, and to other specialized fields are acceptable. Courses or experience in teaching elementary, business, or shop mathematics are not acceptable.
Minimum Qualifications
In additions to meeting the basic requirements above, applicants must meet the minimum qualifications requirement as defined below:

**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:

- Promotes the awareness of security issues ensuring sound security principles.
- Ensures promotion of shared infrastructure and applications to reduce costs and improve information flow.

**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:

- Advises on all assigned information security support programs and initiatives aimed at identifying and safeguarding systems.
- Applies the theoretical foundations of computer science and computer system architecture.

**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:

- Provides regular and recurring advisory services to other state and local agencies on the selection, development, architecture, design and use of data systems and technologies.
- Reviews IT security programs to assess overall compliance with cybersecurity plans and policies.

**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:

- Provides leadership in the direction, development, testing, implementation and evaluation of health informatics and information technology systems.
- Investigates advanced information processing technologies and tools to enhance the data collection. Evaluates the impact of new cybersecurity guidance.

**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.