1515 – Operations Research

Major Duties Required for This Position May Include:

- Perform data science work that requires extraction of knowledge from various surveillance systems and programs:
  - Analysis
  - Improved understanding and communication
  - Development/visualization of new concepts
  - And/or processes that add value to health services delivery and the decision-making process.
- Plan, organize, and carry to completion various operations research studies involving analysis of supply chain and logistics operations processes.
- Participate in complex human capital studies and is responsible for defining specific human capital issues or problems involved, formulating specific approaches or more general policies, evaluating findings, and making recommendations.
- Identify emerging human capital and management problems and policy issues using mathematical techniques and analytical models.

Related Competencies

- Data Analysis and Interpretation
- Data Monitoring
- Advising and Consulting

Basic Requirements

Degree in operations research.

Or

At least 24 semester hours in a combination of operations research, mathematics, probability, statistics, mathematical logic, science, or subject-matter courses requiring substantial competence in college-level mathematics or statistics. At least 3 of the 24 semester hours must have been in calculus.

Minimum Qualifications

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

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:
• Designing visual materials (e.g., publications, presentations, or any other communications media) to disseminate public health information and/or promote basic and advanced scientific, technical, regulatory, or general information.

**Or Education**
Have a master’s or equivalent graduate degree.

**Or Combination**
Have a combination of graduate level education and experience that meets 100% of the qualification requirements for this position.

**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 methods to identify human capital problems and policy issues using mathematical techniques and analytical models.

**Or Education**
Have a Ph.D. or equivalent doctoral degree.

**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:

• Conducting human capital studies to evaluate, design and improve organizational development, strategic planning, and decision models.

**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 mathematical modeling, statistical analysis, and cost effectiveness analytic methods on program operations and business processes.

**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:

- Conducting operational research and analysis concerning human capital issues utilizing mathematical techniques and/or statistical methods.
- Providing data to improve operations using techniques to resolve systemic problems.

**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.