

1320 – Chemistry

Major Duties for This Position May Include:

- Work within an area of primary interest in the field of chemistry or biochemistry.
- Responsible for identifying, defining, and selecting specific problems for review, study and determining what appear to be the most fruitful investigations and approaches to the problem area.
- Formulate hypotheses and develop and carry out the review of chemical studies, coping with novel, difficult, and unexpected problems.
- Work with few guidelines due to the novel character of the work.
- Work involves technical problem definitions, methods, and/or data that may be highly incomplete, controversial, or uncertain.

Related Competencies

- Chemistry
- Data Analysis and Interpretation
- Laboratory Management
- Translation of Science
- Written Communication

Basic Requirements

Degree: physical sciences, life sciences, or engineering that included 30 semester hours in chemistry, supplemented by course work in mathematics through differential and integral calculus, and at least 6 semester hours of physics.

Or

Combination of education and experience to include course work equivalent to a major as shown in above, including at least 30 semester hours in chemistry, supplemented by mathematics through differential and integral calculus, and at least 6 semester hours of physics, 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-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:

- Applying applicable regulations and procedures in a laboratory setting by performing a variety of chemical and clinical analyses of samples, to include the operation of technical instrumentation including mass spectrometers.

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:

- Applying applicable regulations and procedures in a laboratory setting by independently performing chemical analysis in a variety of sample matrices; and operating, calibrating, maintaining analytical instruments including mass spectrometers.

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:

- Developing and carrying out the review of chemical studies in the field of chemistry or biochemistry to identify and solve problems.

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 scientific leadership in formulating, developing, implementing, and evaluating programs and activities related to emergency readiness of public health laboratory systems.

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:

- Developing clinical inorganic analytical chemistry methods, biomonitoring of inorganic chemical biomarkers in clinical samples, and directing the work of research staff and scientists.

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.