

Opportunity Title: Elemental Analysis Fellowship
Opportunity Reference Code: CDC-DLS-2019-0034

Organization Centers for Disease Control and Prevention (CDC)

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How to Apply A complete application consists of:

- An application
- Transcripts – [Click here for detailed information about acceptable transcripts](#)
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional references

All documents must be in English or include an official English translation.

If you have questions, send an email to CDCrpp@ornl.gov. Please include the reference code for this opportunity in your email.

Description An opportunity is available in the Division of Laboratory Sciences, Centers for Disease Control and Prevention (CDC), in Atlanta, Georgia.

The project involves quantifying total elemental concentrations in blood, serum, or urine using inductively coupled plasma mass spectrometry, and designing, developing, and validating analytical methods to detect human exposure to inorganic chemicals.

Training opportunities will include:

- laboratory safety within a level 2 biological safety laboratory (BSL-2)
- quality control (QC) and quality assurance (QA) processes such as those required by the 1988 Clinical Laboratory Improvement Amendments act (CLIA 88)
- theory, use, optimization, troubleshooting, and maintenance of quadrupole ICP-MS for multi-element analysis (e.g. cadmium, lead, and uranium) of urine or blood
- sample and reagent preparation techniques for trace element analysis of urine or blood within a cleanroom (ISO class 2 and 3)
- operation and programming of automated, robotic sample preparation station
- method troubleshooting and validation

This program, administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education, was established through an interagency agreement between DOE and CDC. The initial appointment is for one year, but may be renewed upon recommendation of CDC contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at CDC in the Atlanta, Georgia, area. Participants do not become employees of CDC, DOE or the program



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administrator, and there are no employment-related benefits.

Qualifications Bachelor's, master's or doctoral degree in chemistry or related field conferred within the past 5 years, with a final, overall GPA of at least 3.0 on a 4.0 scale, is required.

Experience with inductively coupled plasma mass spectrometry (ICP-MS) is not a requirement, but is advantageous, as well is a strong background in instrument maintenance, solution preparation, and Microsoft Excel.

- Eligibility Requirements**

- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 month(s).
 - **Overall GPA:** 3.00
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([11](#)👁)
 - **Life Health and Medical Sciences** ([1](#)👁)