

Opportunity Title: Quantitative Mass Spectrometry
Opportunity Reference Code: CDC-DLS-2018-0184

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.

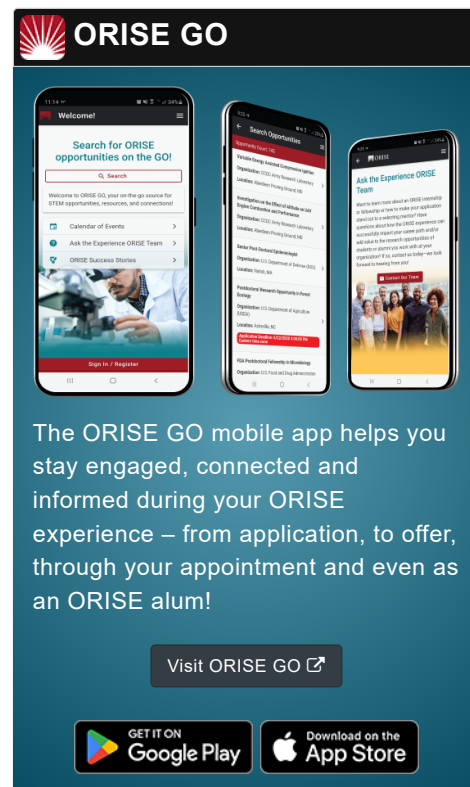
If you have questions, send an email to CDCrpp@orau.org. Please include the reference code for this opportunity in your email.

Description A fellowship opportunity is available in the Division of Laboratory Sciences (DLS), National Center for Environmental Health (NCEH), at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

DLS conducts research and provides laboratory support that improves the detection, diagnosis, treatment and prevention of environmental, tobacco-related, nutritional, newborn, selected chronic and selected infectious diseases. The Newborn Screening and Molecular Biology Branch (NSMBB) supports the newborn screening community through training, method development, translational research, and quality assurance activities.

The training involves activities such as dried blood spot based sample preparation, sample analysis, data processing, method development, method validation and troubleshooting. Additionally, the chosen candidates will gain experience developing liquid chromatography mass spectrometry based method for targeted and non-targeted metabolomics. These activities will be performed in compliance with DLS policies and regulations. NSMBB is ISO 17043 accredited (proficiency testing provider).

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



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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 administrator, and there are no employment-related benefits.

Qualifications

- Doctoral degree in analytical chemistry, biochemistry, or a related field earned within the past five years required
- Familiarity with liquid chromatography and mass spectrometric techniques desired
- Experience with quadrupole and high resolution mass spectrometers (Q-Exactive -preferred-, Orbitrap, Q-TOF, QQQ, etc.) and quantitative measurements using isotope labeled internal standards desired
- Experience with LC/MS and metabolite ID data analysis tools desired
- Experience with LC-MS/MS lipid analysis and method validation experience preferred

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (2 )
 - **Life Health and Medical Sciences** (1 )