

Postdoctoral Associate; USDA

Description

Applications are invited for the position of Analytical Postdoctoral Research Chemist at MAFCL, USDA in Beltsville MD. The mission of the Analytical Methods Research Group (AMR) at MAFCL, is to improve the breadth and quality of composition data by developing, validating, and disseminating new analytical technologies that can be used in identifying and quantifying food components as well as verifying the identity of food materials. The laboratory is equipped with the latest technology, including Orbitrap 240 high-resolution mass spectrometer (HRMS, Thermo Scientific) attached to a Vanquish dual LC, multiple Agilent 1290HPLC systems attached to a single quad mass spectrometer, a near-infrared spectrophotometer, Ankom fiber analyzer, ion chromatography, and several other types of laboratory equipment. A complete application consists of: An application, Transcript(s) – For this opportunity, an unofficial transcript or copy of the student's academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. All transcripts must be in English or include an official English translation. A current resume/CV, including academic history, employment history, relevant experiences, and publication list. Two educational or professional recommendations. Please email all documents to Dave.Luthria@usda.gov

Responsibilities – Perform regular sample preparation, extraction, and acquiring data using multiple spectroscopic and chromatographic techniques including a high-resolution mass spectrometer. Documentation, organizing, and analyzing large analytical metabolomic datasets are essential. Perform statistical and computational analysis. Preparation of manuscript for peer-reviewed publications.

Qualifications – The qualified candidate should have received a doctoral degree in chemistry or food and agriculture sciences. Preferred skills: • Experience in working with high-resolution mass spectrometry and chromatographic separation • Experience in the collection and analysis of large analytical metabolomic datasets and data mining approaches • Experience in the analysis of major food components such as carbohydrates and other secondary metabolites • Strong statistical, computational, and analytical skills • Strong oral and written communication skills • Practical knowledge of agricultural sciences, biology, or a similar field is beneficial

Contact – Dave Luthria, dave.luthria@usda.gov

Job Confirmation # – 207455561

Post End Date – 12/07/2022

Contacts

Hiring organization

USDA, <https://www.ars.usda.gov/northeast-area/beltsville-md-bhnrc/beltsville-human-nutrition-research-center/methods-and-application-of-food-composition-laboratory/mafcl-site-pages/about-mafcl/>

Date posted

December 7, 2022

Website

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