Opportunity Title: Nanotechnology Core Research Project - FDA ORA ARL
Opportunity Reference Code: FDA-ORA-2016-0166

Organization U.S. Food and Drug Administration (FDA)

Reference Code FDA-ORA-2016-0166

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 FDArpp@orau.org. Please include the reference code for this opportunity in your email.

Description A postgraduate research opportunity is currently available currently available at the U.S. Department of Health and Human Services, Food and Drug Administration (FDA), Office of Regulatory Affairs (ORA), Arkansas Regional Laboratory.

The postdoctoral fellow will collaborate with a multi-disciplinary research efforts within the NCTR/ORA Nanotechnology Core Facility. Collaborative and research activities may include:
1. Development of solid phase extraction, separation, compound identification and quantification techniques using HPLC-QTOF, QQQ and CE-QTOF, QQQ
2. Development of hyphenated size-based separation techniques (e.g., asymmetric field flow fractionation, centrifugal field flow fractionation, capillary electrophoresis, liquid chromatography) using spectrometry (QTOF/QQQ), MALS, DLS and optical absorbance detectors.
3. Collaboration on projects with other Office of Regulatory Affairs Laboratories and FDA Centers where nanomaterials need to be detected and/or quantified.

The fellowship is within the Nanotechnology Core Facility where the following analytical techniques will be used to support these research activities: high resolution mass spectrometry (HRMS) techniques such as triple quadrupole mass spectrometry (QQQ), quadrupole time of flight mass spectrometry(QTOF), HPLC-MS, HPLC-ELSD, capillary electrophoresis (CE), asymmetric field flow fractionation (AFFF), centrifugal field flow fractionation(CFFF), inductively coupled plasma-mass spectrometry(ICP-MS), and electron microscopy(EM).

The Nanotechnology Core Facility was developed to support the technical needs of scientists involved in determining the toxicity, safety, and characterization of nanomaterials. This facility supports research efforts at the FDA's ORA, the National Center for Toxicological Research (NCTR), and the National Institute of Environmental Health Sciences National Toxicology Program.

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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 FDA. The initial appointment is for 12 months, but may be renewed upon recommendation of FDA 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 FDA in the Jefferson Laboratory Complex, Arkansas area. Participants do not become employees of FDA, DOE or the program administrator, and there are no employment-related benefits.

Qualifications Applicants must have received a doctorate in chemistry or a related discipline within five years of the desired starting date, or completion of all requirements for the degree should be expected prior to the start date. Knowledge of mass spectrometry is desired. A background in nanotechnology, pharmacology, and toxicology, is also preferred.

Eligibility Requirements

- **Degree:** Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (8 👁)
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)
  - **Science & Engineering-related** (1 👁)