Opportunity Title: Chemical Informatics Fellowship - CDER
Opportunity Reference Code: FDA-CDER-2017-0083

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

Reference Code FDA-CDER-2017-0083

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 research opportunity is available at the Food and Drug Administration (FDA), Center for Drug Evaluation and Research (CDER) in the Office of Translational Sciences/Office of Clinical Pharmacology.

The CDER Chemical Informatics Program provides (quantitative) structure-activity relationship [(Q)SAR] assessments as requested by CDER reviewers to support safety decisions for drugs and components of drug products under review. Databases and models used for these analyses are developed and/or validated by the CDER Chemical Informatics Program. This project focuses on the on the prediction of nonclinical safety endpoints, such as mutagenicity and carcinogenicity, and/or 3D molecular docking to predict clinical pharmacology.

Under the guidance of a mentor the participant will be involved in the harvesting and interpretation of toxicology data for these endpoints, development and application of (Q)SAR models, and communication of the results to internal stakeholders.

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 the FDA. The initial appointment is full-time for twelve (12) months, but may be renewed upon recommendation of the 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 the FDA in the Silver Spring, Maryland area. Participants do not become employees of the FDA or the program administrator, and there are no fringe benefits paid.

Qualifications A doctoral degree in chemistry or related field received within the last five years. Knowledge of drug toxicology and (Q)SAR modeling, including 3D molecular docking with MOE is desired. Publication history in peer reviewed journals and programming and chemical/biological data-mining skills are

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also desirable.

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Doctoral Degree received within the last 60 month(s).
- **Academic Level(s):** Postdoctoral.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (6 👁)
  - **Computer, Information, and Data Sciences** (2 👁)
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)