Opportunity Title: Blood-Brain Barrier QSAR Modeling Fellowship - FDA CDER
Opportunity Reference Code: FDA-CDER-2018-0332

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

Reference Code FDA-CDER-2018-0332

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 opportunity is available at the U.S. Food and Drug Administration (FDA), Center for Drug Evaluation and Research (CDER), in Silver Spring, Maryland.

The Division of Applied Regulatory Science (DARS), Office of Clinical Pharmacology (OCP), Office of Translational Sciences (OTS), in the Center for Drug Evaluation and Research (CDER) of the U.S. Food and Drug Administration (FDA) is seeking an in silico pharmacologist research fellow. This training represents an excellent scientific development opportunity in a visible, high priority program.

Under the guidance of a mentor, the participant may be involved in the development of (quantitative) structure-activity relationship ((Q)SAR) models to predict blood-brain barrier (BBB) permeability and various efflux transporter interactions. The participant will be part of a highly collaborative, multidisciplinary environment. Specifically, in collaboration with a mentor the participant may be involved in one or more of the following aspects of the project developing and applying data-mining tools; reviewing, extracting, and harmonizing data from the literature; constructing and enhancing training databases for modeling purposes developing, validating and optimizing (Q)SAR models; constructing chemical structure-linked knowledge bases with enhanced search capabilities.

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 one year, 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 Silver Spring, Maryland, area. Participants do not become employees of FDA, DOE or the program administrator, and there are no employment-related benefits.

The Homeland Security Presidential Directive-12 (HSPD-12) mandates a background check be completed for both U.S. Citizens and foreign nationals. Foreign nationals must have resided in the U.S. for at least three

Opportunity Title: Blood-Brain Barrier QSAR Modeling Fellowship - FDA CDER
Opportunity Reference Code: FDA-CDER-2018-0332

(3) of the past five (5) years in order for FDA to be able to complete a background check.

Qualifications

Doctoral or Master's degree in pharmacology, chemical informatics, neuroscience, or related fields with a strong emphasis on in silico pharmacology is preferred. The degree must have been received within the last 5 years of the start date of the appointment to be eligible.

The qualified candidate will have a combination of the following: knowledge of chemistry, pharmaceutical science and (Q)SAR modeling; background or interest in ADME-Tox; knowledge of Molecular Operating Environment (MOE); familiarity with blood brain barrier (BBB) permeation and various efflux transporter (e.g., P-gp, BCRP) interactions; interest in computer programming; strong background in chemistry and cheminformatics.

Eligibility Requirements

- **Degree:** Master's Degree or Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (1 👁)
  - **Life Health and Medical Sciences** (3 👁)