

Opportunity Title: Protein Biochemistry Fellowship - FDA CDER

Opportunity Reference Code: FDA-CDER-2017-0018

- Organization** U.S. Food and Drug Administration (FDA)
- Reference Code** FDA-CDER-2017-0018
- 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.

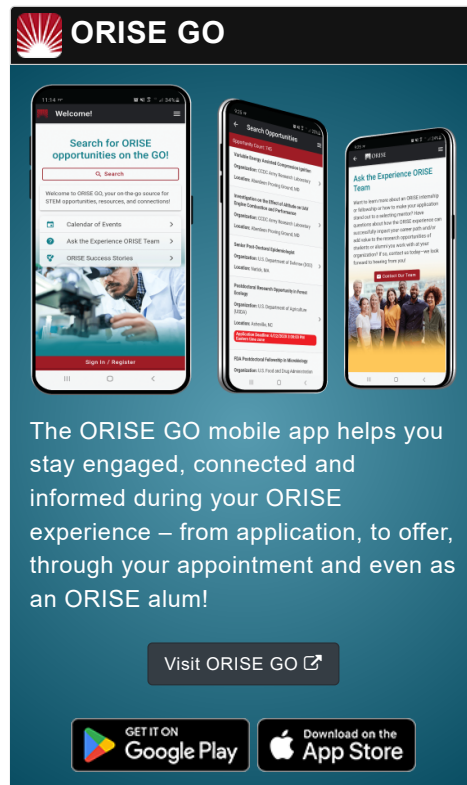
If you have questions, send an email to FDArpp@orau.org. Please include the reference code for this opportunity in your email.

Description A postgraduate research opportunity is available at the Food and Drug Administration (FDA), Center for Drug Evaluation and Research (CDER), in the Office of Pharmaceutical Quality.

The participant will join a multi-disciplinary research program to understand the biochemistry of protein oxidation. The project will focus on how excessive oxidative stress can modify proteins and impact drug safety or efficacy. The goals are to (1) investigate structure-function relationships between protein oxidation and drug quality, safety and efficacy and (2) identify biochemical mechanisms of chemoprotection and to develop protein biomarkers of chemotherapeutic outcomes.


This project involves the analyses of formulation and protein oxidation. Studies may include orthogonal validation experiments utilizing specialized equipment to characterize the structure-function relationship between oxidation and protein structure or function. Studies may also include free radical measurement, protein purification, mass spectrometry, or next generation sequencing for gene expression.


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 Silver Spring, MD area. Participants do not become employees of FDA or the program administrator, and





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there are no fringe benefits paid.

Qualifications Applicants must have received a doctoral degree in Biochemistry or related disciplines within five years of the desired starting date. A master's degree with direct experience in protein biochemistry research areas defined below would also be considered.

- Eligibility Requirements**
- **Degree:** Master's Degree or Doctoral Degree received within the last 60 month(s).
 - **Academic Level(s):** Postdoctoral or Post-Master's.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** (2 )
 - **Environmental and Marine Sciences** (1 )
 - **Life Health and Medical Sciences** (45 )