

Opportunity Title: FDA CDRH Research Fellowship in Biomedical Imaging

Opportunity Reference Code: FDA-CDRH-2023-08

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

Reference Code FDA-CDRH-2023-08

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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
- One educational or professional recommendation. Your application will be considered incomplete and will not be reviewed until one recommendation is submitted.

All documents must be in English or include an official English translation.

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

Description *Applications will be reviewed on a rolling-basis.

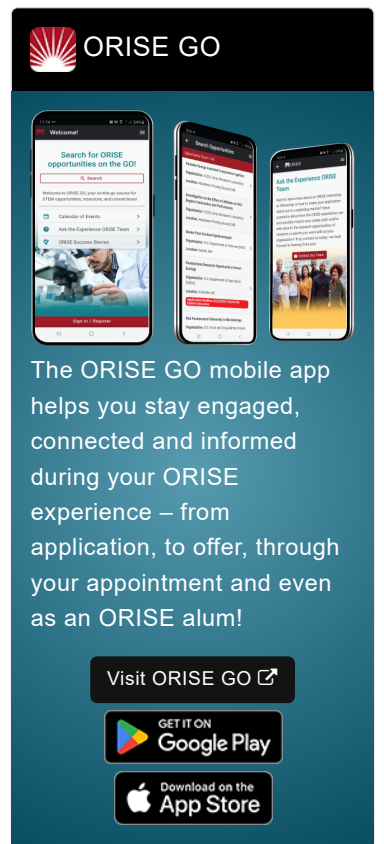
A research opportunity is available in the Office of Science and Engineering Laboratories (OSEL), within the Center for Devices and Radiological Health (CDRH), Food and Drug Administration (FDA) located in Silver Spring, Maryland.

The fellow will perform research on optical medical imaging devices such as endoscopes. A key aspect of this project will involve development and validation of advanced experimental and numerical methods for evaluating image/video quality and overall device performance. These techniques will be used to elucidate the effect of device design, software and other variables on imaging performance.

Anticipated Appointment Start Date: September 2023; start date is flexible

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 on-site for laboratory research 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.

Completion of a successful background investigation by the Office of Personnel Management (OPM) is required for an applicant to be on-boarded at FDA. OPM can complete a background investigation only for individuals, including non-US Citizens, who have resided in the US for a total of three of the past five years.



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FDA Ethics Requirements

If an ORISE Fellow, to include their spouse and minor children, reports what is identified as a Significantly Regulated Organization (SRO) or prohibited investment fund financial interest in any amount, or a relationship with an SRO, except for spousal employment with an SRO, and the individual will not voluntarily divest the financial interest or terminate the relationship, then the individual is not placed at FDA. For additional requirements, see FDA Ethics for Nonemployee Scientists.

FDA requires ORISE participants to read and sign their FDA Education and Training Agreement within 30 days of his/her start date, setting forth the conditions and expectations for his/her educational appointment at the agency. This agreement covers such topics as the following:

- Non-employee nature of the ORISE appointment
- Prohibition on ORISE Fellows performing inherently governmental functions
- Obligation of ORISE Fellows to convey all necessary rights to the FDA regarding intellectual property conceived or first reduced to practice during their fellowship
- The fact that research materials and laboratory notebooks are the property of the FDA
- ORISE fellow's obligation to protect and not to further disclose or use non-public information

Qualifications The qualified candidate should have received a master's or doctoral degree in an engineering or science discipline (including but not limited to optical engineering, electrical engineering, or computer science). Degree must have been received within the past five years.

Preferred candidate should have some of the following experience:

- Experience with optical construction, image/video processing and analysis
- Knowledge of test methods for basic optical performance characteristics
- Hands-on experience with medical device testing Programming skills (Matlab, etc.)
- Excellent communication skills and the ability to work in our highly collaborative team environment
- Background of hyperspectral imaging is preferred

Eligibility Requirements

- **Degree:** Master's Degree or Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Communications and Graphics Design** ([6](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Engineering** ([27](#))
 - **Physics** ([1](#))
- **Age:** Must be 18 years of age

Affirmation Have you lived in the United States for at least 36 out of the past 60 months? (36 months do not have to be consecutive.)