



## Staff Fellow (Biomedical / Electrical / Mechanical Engineer for Wearables Research)

**INTRODUCTION:** The Center for Devices and Radiological Health ([CDRH](#)), a major regulatory component of the Food and Drug Administration ([FDA](#)) and the Department of Health and Human Services, is inviting applications for a Staff Fellow (Biomedical-Electrical-Mechanical Engineer for Wearables Research) in the Division of Biomedical Physics ([DBP](#)), Office of Science and Engineering Laboratories ([OSEL](#)). The division helps drive the FDA mission by performing best in the world regulatory science on the biophysical interactions between medical devices and the human body.

**POSITION SUMMARY:** As a Staff Fellow in DBP you will perform laboratory and/or clinical research to advance the regulatory science of wearable sensors and digital biomarkers in medical device development with a focus on biomechanics of human movement.

**DUTIES / RESPONSIBILITIES:** As Staff Fellow, you will also perform the following duties:

- Serve as a technical authority in the scientific analysis of the safety and effectiveness of medical devices involving wearable sensors and related products; provide an authoritative analysis of scientific data submitted to the Agency; and develop new and innovative approaches to scientific testing required for medical device reviews by FDA.
- Generate written technical and scientific documents for peer-reviewed publications and consulting support activities.
- Utilize expert scientific and technical knowledge to serve as an advisor or consultant on regulations and policies involving complex and high priority matters affecting the regulation of medical devices involving wearable sensors and related products.
- Prepare oral and written communications of review recommendations.
- Effectively communicate within FDA, with device manufacturers, and with other public health stakeholders.

**PROFESSIONAL EXPERIENCE / KEY REQUIREMENTS:** To qualify for this position, you must demonstrate in your resume the necessary experience for this position, which is equivalent to the following:

- Experience in biomechanics of human movement, clinical research involving acquisition and analysis of wearable sensor data, 3D motion capture acquisition and analysis, design and testing of digital biomarkers from wearable sensor data, and artificial intelligence and machine learning applied to human movement and physiologic data.
- Research experience related to wearable sensors for measurement of human movement and/or designing and testing digital biomarkers from wearable sensor data.
- Ability to develop project plans and manage timely execution of project deliverables and timelines.
- Demonstrated ability to participate in and contribute to multi-disciplinary teams and work groups to resolve difficult or controversial research questions.

**BASIC QUALIFICATIONS:** Applicants must meet the specific qualification requirements of the following applicable occupational series: [General Engineering \(0801\)](#); [Mechanical Engineering \(0830\)](#); [Electrical Engineering \(0850\)](#); [Computer Engineering \(0854\)](#); [Bioengineering and Biomedical Engineering \(0858\)](#); [Chemical Engineering \(0893\)](#); [Physics \(1310\)](#); [Computer Science \(1550\)](#).

**ADDITIONAL QUALIFICATIONS:** To qualify as a Staff Fellow, you must: be a US Citizen, Permanent Resident, or Non-Citizen with residency status in the U.S., three (3) out of the last five (5) years; possess a



doctoral-level degree from an accredited institution of higher learning, including: Ph.D., M.D., D.V.M., D.D.S., D.M.D., Sc.D., or other research doctoral-degree widely recognized in U.S. academe as equivalent to a Ph.D.. (*In limited instances non-doctoral candidates, and/or candidates with less experience may be acceptable*).

### CONDITIONS OF EMPLOYMENT

- One-year probationary period may be required.
- This position is for a **three-year** appointment and will be filled through [FDA's Staff Fellowship Program](#)
- Background and/or Security investigation required.
- Applicants who are U.S. Citizens and born male, on (or after) 12/31/1959, must be registered with the [Selective Service System](#) OR have an approved exemption.
- This position may require financial disclosure reporting and will be subject to FDA's prohibited financial interest regulation. If you are hired, you may be required to divest of certain financial interests. You are advised to seek additional information on this requirement from the hiring official before accepting any job offers. For additional information, please visit the [FDA Ethics and Integrity Office](#).

**LOCATIONS:** [FDA's White Oak Campus](#) in Silver Spring, Maryland

**SALARY:** Salary is commensurate with education and experience.

**HOW TO APPLY:** Prior to applying, please see the following instructions:

- Submit an electronic resume or curriculum vitae and a cover letter describing why you are uniquely qualified for this job.
- Include Job Reference code "**2020-OSEL-DBP-046-Wearables-001**" in the email subject line.
- Email applicant package to [CDRH-OSEL-Opportunities@fda.hhs.gov](mailto:CDRH-OSEL-Opportunities@fda.hhs.gov).
- Applications and all supporting documentation will be accepted through **July 13, 2022**.
- Visit [CDRH Jobs](#) to see additional opportunities.

*HHS/FDA is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status.*

