Position Title: Staff Fellow – Electromagnetic Laboratory and Modeling Research

Position Number: CDRH-OSEL-DBP-005

Salary Range: $87,198 - $134,798 (depending upon education and experience)

Position Information: Full-Time – appointment term of 3 years, with possibility of being extended.

Duty Location: Silver Spring, MD

Who may be considered: US Citizens; Permanent Residents; and Non-Citizens

Job Summary: The Division of Biomedical Physics in the FDA’s Center for Devices and Radiological Health (CDRH), Office of Science and Engineering Laboratories (OSEL) has an opening in Silver Spring, MD for a full-time staff scientist / engineer position. The Division conducts research on devices to assess and improve the safety and effectiveness of medical devices. We seek a candidate with a concentration in electromagnetics (EM) research, both laboratory and modeling. Our EM research covers a broad range of diagnostic, therapeutic and communications applications and sources. Duties will include measurement and analysis of EM fields, specific absorption rate (SAR) and investigation of electromagnetic interference, RF heating and RF communications protocols. The candidate should have a strong background in electrical engineering and electromagnetics with experience in one or more of the following areas: laboratory experience collecting EM, SAR or EMC data, preferably in the area of medical device safety and compatibility; computational electromagnetic modeling; electromagnetic dosimetry; and electrically powered medical devices.

The position focuses on laboratory and computational research, and policy or consulting support for reviews of new medical devices and analysis of device failures. The successful candidate will generate written technical and scientific documents for peer-reviewed publications and consulting support activities. Excellent speaking and writing skills are required.

Educational Requirements: Applicants must possess a M.S. or Ph.D. or equivalent degree in engineering, physics, or a related scientific field. The applicant must be able to demonstrate mastery of principles and practices EM measurements and modeling and the ability to apply this to medical device safety. This will enable the staff fellow to serve as a technical authority in the scientific analysis of the safety and effectiveness of medical devices; 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. Applicants who have completed part or all their education outside the US must have their foreign education evaluated by an accredited organization to ensure that the foreign education is comparable to education received in accredited educational institutions in the US. This evaluation must also be provided by midnight Eastern Time on the closing date of this vacancy announcement. For more information on Foreign Education verification, visit the U.S. Department of Education. Another listing of services that can perform this evaluation is available at the National Association of Credential Evaluation Services (NACES) website.

Qualifications: Please document knowledge, skills, and abilities relevant to each area described below:

- M.S. or Ph.D. from an accredited university in engineering, physics, or a relevant science field.
• At least three years of experience planning and conducting laboratory and/or computational (e.g., with multi-physics modeling software) research in the field of electromagnetics, preferably with a focus on medical device safety.
• Experience reviewing, analyzing, and using scientific data or other information to advance safety technology, preferably with a focus on EM related to medical devices.
• Knowledge of the scientific principles and practices associated with evaluating RF hardware.
• Demonstrated ability to participate in and contribute to multi-disciplinary teams and work groups to resolve difficult or controversial research questions.
• Excellent scientific writing and communication skills.

How to Apply: To apply for this announcement, applicants should provide a complete application package that includes the following: (a) a cover letter with compensation requirements, (b) curriculum vitae, (c) narrative responses to the Qualifications Section, and (d) names and contact information of three references

Note: All supporting documents should include the announcement number.

Applications should be sent via email to CDRH-OSEL-Opportunities@fda.hhs.gov. Applications must be received by closing date to be considered. Electronic submission of application materials is encouraged. Applications sent via e-mail must be submitted as MS Word or Adobe pdf.

Contact Denise Townsend for Questions: Denise.Townsend@fda.hhs.gov

Additional Announcement Information

1. Security and Background Requirements: All candidates must meet applicable security requirements which include a background check and a minimum of 3 out of the past 5 years’ residency status in the US. If not previously completed, a background security investigation will be required for all appointees. Appointment will be subject to the applicant’s successful completion of a background security investigation and favorable adjudication. Failure to successfully meet these requirements may be grounds for appropriate personnel action. In addition, if hired, a background security reinvestigation or supplemental investigation may be required at a later time. Applicants are also advised that all information concerning qualifications is subject to investigation. False representation may be grounds for non-consideration, non-selection, or appropriate disciplinary action.


3. For more information about Office of Science and Engineering Laboratories (OSEL) at FDA/CDRH: https://www.fda.gov/about-fda/cdrh-offices/office-science-and-engineering-laboratories

4. Travel, transportation and relocation expenses will not be paid.