**Position Title:** Electrical Engineer/Electronic Engineer/Biomedical Engineer/Physicist/Chemist

**Salary Range:** $69,500 - $126,062 (depending upon education and experience)

**Position Information:** Full Time – Excepted Service Time-Limited to 3 years. After completion of the first 3 years the appointment can be extended in 3-year increments.

**Duty Location:** Silver Spring, MD

**Who may be considered:** US Citizens, Permanent Residents, and Non-Citizens with residency status in the US, 3 out of the last 5 years.

**Security Clearance:** Public Trust - Background

**Job Summary:**

The Division of Biomedical Physics of the FDA’s Center for Devices and Radiological Health, Office of Science and Engineering Laboratories 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 require a candidate specialized in Magnetic Resonance Imaging (MRI) Technology and medical implant safety in the MRI environment. Applicants with experience in one or more of the following fields will be considered: MRI hardware including gradient and radio-frequency (RF) coils, MRI safety testing of medical devices, Electromagnetic dosimetry, and active implantable devices.

The position involves approximately 75% laboratory research and 25% consulting support for reviews of pre-market submissions of new medical devices.

For additional information:

[https://www.fda.gov/MedicalDevices/ScienceandResearch/ResearchPrograms/ucm477387.htm](https://www.fda.gov/MedicalDevices/ScienceandResearch/ResearchPrograms/ucm477387.htm)

[http://www.fda.gov/AboutFDA/CentersOffices/OfficeofMedicalProductsandTobacco/CDRH/CDRHOffices/ucm299948.htm](http://www.fda.gov/AboutFDA/CentersOffices/OfficeofMedicalProductsandTobacco/CDRH/CDRHOffices/ucm299948.htm)
1. **Major duties:** Plan and conduct state-of-the-art MR Safety research and develop scientific approaches to assess the safety and effectiveness of medical devices. Make recommendations to management and regulatory review staff pertaining to findings.

2. Assess the safety and effectiveness of medical devices in support of FDA regulatory programs through review of scientific data submitted by product sponsors in support of a variety of medical device submissions such as premarket applications (PMAs), investigational device exemptions (IDEs) and premarket notifications (510(k)s).

3. Develop and evaluate Agency-wide guidelines concerning the data required in submissions to the Center and Agency for medical device premarket clearance/approval.

4. Produce written products of high quality including scientific and technical papers that receive wide distribution within the scientific or professional community.

5. Effectively communicate through presentations and written materials to the medical and scientific experts in the Center and Agency.

6. Serve on international standards-setting groups and FDA taskforces and/or work groups, as needed to address issues pertaining to assessing the safety and performance of medical devices.

**Educational Requirements:**

Applicants should possess a MS/Ph.D. or equivalent degree in Engineering, Physics, Chemistry or a related field. The applicant must also be able to demonstrate accomplishments in the areas of MRI hardware research. This will enable the incumbent to serve as a technical authority in the scientific analysis on 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 of their education outside of the U.S. 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 U.S. 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 US 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:

- At least five years of experience conducting state-of-the-art laboratory research in the field of MRI.
• Strong background in MRI hardware including gradient or RF coils and preferably experience in electromagnetic modeling methods and the behavior of implantable devices in the MRI environment.
• Experience reviewing, analyzing, and using scientific data or other information to advance and convey understanding of MRI safety as it relates to electromagnetic effects.
• Ability to participate in and contribute to multi-disciplinary teams and work groups to resolve difficult or controversial research and regulatory questions/problems.
• Excellent skills in written and oral communication.

How to Apply:
To apply for this announcement, applicants must provide a complete application package which includes: (a) a cover letter with compensation requirements, (b) curriculum vitae, (c) response to the seven knowledge, skills, and abilities from the qualifications section and, (d) the names and contact information of three references. The application package should refer to Staff Fellow position in OSEL/DBP.

Note: All supporting documents should include the announcement number.
Applications should be sent via email to oselrecruitment@fda.hhs.gov or mailed to the attention of Valerie McRae, FDA/CDRH/OSEL, 10903 New Hampshire Avenue, Building 62, Room 4229, Silver Spring, MD 20993-0002. Electronic submission of application materials is encouraged. Applications sent via e-mail must be submitted as MS Word, or Adobe pdf. Contact Valerie McRae for Questions: Valerie.McRae@fda.hhs.gov

Additional Announcement Information
1. Security and Background Requirements: 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 and/or appropriate disciplinary action.