



TITLE 21 VACANCY ANNOUNCEMENT

**Department of Health and Human Services (HHS)
Food and Drug Administration (FDA)
Center for Devices and Radiological Health (CDRH)
Office of Product Evaluation and Quality (OPEQ)
Office of Clinical Evidence and Analysis (OCEA)
Division of Clinical Evidence and Analysis II (DCEA2)**

Position(s): Data Engineer, CDRH/OPEQ/OCEA/DCEA2

Series: The position of Data Engineer may be filled by candidates from the following occupational series: [Data Scientist \(301\)](#), [General Engineer \(0801\)](#), [Computer Engineer \(0854\)](#), [Mathematics \(1520\)](#), [Mathematical Statistician \(1529\)](#), [Statistician \(1530\)](#), and [Computer Science \(1550\)](#)

Location(s): Silver Spring, Maryland, FDA headquarters, [White Oak Campus](#)

Area of Consideration: FDA Employees

Travel Requirements: This position may require up to 25% travel.

Application Period: February 15 - 28, 2023

Salary: Salary starts at \$126,233 and is commensurate with experience.

Conditions of Employment: U.S. Citizenship is required

Special Notes: This position is being filled under an excepted hiring authority, Title 21, Section 3072 of the 21st Century Cures Act. The candidate selected for this position will serve under a career or career-conditional appointment and be paid under the provisions of the authority. [Additional information on 21st Century Cures Act can be found here.](#)

Introduction: The [Center for Devices and Radiological Health \(CDRH or Center\)](#) assures that patients and providers have timely and continued access to safe, effective, and high-quality medical devices and safe radiation-emitting products. CDRH facilitates medical device innovation by advancing regulatory science, providing industry with predictable, consistent, transparent, and efficient regulatory pathways, and assuring consumer confidence in devices marketed in the U.S.

Within CDRH, the Office of Product Evaluation and Quality (OPEQ or Super Office) is responsible for setting strategy and overseeing the Offices of Health Technology 1-7, Office of Clinical Evidence & Analysis (OCEA or Office), Office of Regulatory Programs (ORP). Using a focused Total Product Lifecycle (TPLC) approach, the Office ensures quality end-to-end device evaluation and the consistent interpretation and application of regulatory policy and guidance. The Office ensures that these activities are aligned to the overall strategy and priorities of CDRH and FDA and contains staff responsible for Clinical Affairs, Quality Management and Analysis, and Strategic Initiatives.

The [Office of Clinical Evidence and Analysis \(OCEA or Office\)](#), within OPEQ, provides policy and programmatic support for clinical trials, the protection of human subjects, biostatistics, real-world evidence, epidemiological analysis and outreach, and collaborates with hospitals, health systems, industry, and other external stakeholders. Additionally, OCEA provides regulatory oversight of medical device clinical investigations, to ensure good laboratory practices and clinical practices in support of premarket review. Further, OCEA oversees the application of modern artificial intelligence (AI) tools, including machine learning (ML) algorithms and deep learning methodologies that can be evaluated, piloted, and implemented at scale, by CDRH, to identify or predict medical device safety signals faster and earlier in the life cycle of devices.

Position Summary: OCEA is seeking innovative, forward thinking and driven Data Engineer(s) to develop, pilot, and implement various data analytics tools within CDRH, while collaborating with a team of Data Scientists, Data Engineers and Developers across the Office and Center and interfacing with contractors to accomplish these goals.

Duties/Responsibilities: As a Senior Data Engineer, the selected candidate will:

- Serve as the Architect of Amazon Web Services (AWS) Linux data systems connecting user-facing products to back-end infrastructure.
- Write code to connect scheduled jobs, microservices, and web applications to data pipelines.
- Work with a team of developers in machine learning operations (MLOps), distributed microservices, and full stack data products.
- Utilize the latest open-source technologies to design, implement and maintain data-intensive applications, including data ingestion pipelines, feature stores, and data transformations.
- Perform unit / system tests and conduct rigorous code reviews.
- Provide minimum AWS credentials for developers / services to perform their jobs with highest security standards.
- Understand product requirements, engage with team members and customers to define solutions, and estimate the scope of work required.
- Collaborate with, mentor, and influence members within your team and across other teams.
- Deliver solutions that can keep up with a rapidly evolving product in a timely fashion.
- Identify opportunities to continuously improve data pipelines for operational excellence.

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:

- Application development: Python, Javascript, (Node, Vue), familiarity with Scala and Functional Programming
- Streaming big data technologies: Kafka / Kinesis, Parquet, Spark Storage frameworks: SQL, NoSQL
- Microservice and infrastructure automation: AWS Cloud Formation, Terraform, Docker, Kubernetes, AirFlow
- Cloud data pipelines: S3, Lambda, Step Functions, EMR, RedShift / Snowflake
- Additional: strong skills in Continuous Integration and Testing frameworks

Desirable Qualifications/Experience:

- Skillful in effectively interpreting and presenting complex information and concepts, in both written and oral formats.
- Ability to build collaborative and mutually beneficial working relationships with a diverse cadre of customers and stakeholders.
- Ability to actively embrace diversity by actively promoting an inclusive workplace that maximizes the talents of each person.
- Ability to focus on objectives and results when considering the various alternatives to a decision.

Basic Qualifications:

Candidates must possess the required individual occupational requirements to qualify for the appropriate series applicable to the position. Please use the following link to determine the series for which you qualify: <https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/#url=List-by-Occupational-Series>

Conditions of Employment:

- A supervisory probationary period may be required.
- Background and/or Security investigation required.
- All applicants born male, on (or after) 12/31/1959, must be registered with the [Selective Service System](#) OR have an approved exemption.
- This position is subject to strict prohibited financial interest regulations which could restrict the type of financial interest (stock holdings) for the employee, the spouse, and minor children of the employee. For additional information on the prohibited financial interests, visit the FDA Ethics and Integrity Office website at <https://www.fda.gov/about-fda/jobs-and-training-fda/ethics>.
- Due to COVID-19, the Agency is currently in an expanded telework posture. If selected, you may be expected to temporarily telework, even if your home is located outside the local commuting area. Once employees are permitted to return to the office, you will be expected to report to the duty station listed on this announcement within 45 days. At that time, you may be eligible to request to continue to telework one or more days a pay period depending upon the terms of the agency's telework policy. As required by Executive Order 14043, Federal executive branch employees are required to be fully vaccinated against COVID-19 regardless of the employee's duty location or work arrangement (e.g., telework, remote work, etc.), subject to such exceptions as required by law. If selected, you will be required to be vaccinated against COVID-19 and will receive instructions on how to provide documentation.

How to Apply: Submit an electronic resume or curriculum vitae, a cover letter containing a brief summary of scientific accomplishments, SF-50, and a copy of unofficial transcripts all in one document (**Adobe PDF**) to CDRHRecruitment@fda.hhs.gov, with Job Reference code **“2020-OCEA-D-CEA2-069/PBM-2285”** in the subject line. Applications will be accepted through **February 28, 2023.**

Equal Employment Opportunity Policy

The United States Government does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, or other non-merit factors.

- [Equal Employment Opportunity \(EEO\) for federal employees & job applicants](#)

Reasonable Accommodation Policy

Federal agencies must provide reasonable accommodation to applicants with disabilities where appropriate. Applicants requiring reasonable accommodation for any part of the application process should follow the instructions in the job opportunity announcement. For any part of the remaining hiring process, applicants should contact the hiring agency directly. Determinations on requests for reasonable accommodation will be made on a case-by-case basis.

A reasonable accommodation is any change to a job, the work environment, or the way things are usually done that enables an individual with a disability to apply for a job, perform job duties or receive equal access to job benefits.

Under the Rehabilitation Act of 1973, federal agencies must provide reasonable accommodations when:

- An applicant with a disability needs an accommodation to have an equal opportunity to apply for a job.
- An employee with a disability needs an accommodation to perform the essential job duties or to gain access to the workplace.
- An employee with a disability needs an accommodation to receive equal access to benefits, such as details, training, and office-sponsored events.

You can request a reasonable accommodation at any time during the application or hiring process or while on the job. Requests are considered on a case-by-case basis.

Learn more about [disability employment and reasonable accommodations](#) or [how to contact an agency](#).

The Department of Health and Human Services is an equal opportunity employer with a smoke-free environment.

FDA is an equal opportunity employer