



Data Engineer – (Digital Library Services)

As a Data Engineer in the Information Technology Services (ITS) department, you will support the MIT Libraries' vision of building and supporting an open global platform for knowledge creation and sharing through an Infrastructure-as-Code (IaC) and an automation-with-code approach. Reporting to the Manager of Infrastructure Engineering, the Data Engineer will continue the build out of our pipeline automation in our cloud infrastructure; optimize, monitor, and scale applications and associated infrastructure; and configure and deploy new workloads in the cloud. You'll use Python, Terraform, and other tools together with a DevOps mindset to establish automated ETL pipelines, work with immutable infrastructure, and execute repeatable deployments. You will join a team committed to continuous learning, failing forward, open communication, shared responsibility, and collaborative problem solving. This role can be filled by a fully remote employee.

Responsibilities include:

- Building, configuring, documenting, and deploying data-related applications supporting library services
- Supporting, monitoring, optimizing, and troubleshooting application automation
- Designing, building, configuring, documenting, and deploying automated ETL pipelines
- Partnering with engineers in other teams to support, maintain, and improve existing data pipelines
- Solving business and technical problems in collaboration with colleagues from technology teams and functional stakeholders
- Exhibiting empathy, acknowledging shortcomings, and collaborating with others to improve the team cohesiveness and performance
- Establishing and maintaining strong working relationships within the team, among the department, and across the organization

Required Qualifications Include:

- Bachelor's degree in a technical field, preferably in computer science or technology management
- Minimum of 5 years professional experience in a role where application development and/or data engineering were a primary responsibility.
- Strong understanding of cloud-native applications, pipeline automation, and serverless deployments
- Experience with cloud technologies, preferably AWS
- Excellent verbal and written communication skills
- Data and/or metadata engineering experience
- Software development skills with Python
- Experience building Docker containers

We expect candidates to be stronger in some qualifications listed above than others; we are committed to helping our future colleague expand their skills, as well as learning from their areas of strength

Preferred:

- Experience with automated deployments, DevOps, and agile practices/methodologies
- Familiarity with multiple metadata content and encoding standards such as MARC/MARCXML, Dublin Core, EAD, PREMIS, VRA Core, FCGD, or CCO

SALARY AND BENEFITS: The target hiring range for this position is \$95,000-\$108,000

Actual salary will depend on qualifications and experience. MIT offers excellent [benefits](#) including a choice of health and retirement plans, a dental plan, tuition assistance, and fully subsidized MBTA passes for local bus and subway service. Flexible work arrangements, including flex-time and telecommuting, are considered for positions that meet established criteria. The MIT Libraries is a collegial and supportive working environment and fosters professional growth of staff with management training and travel funding for professional meetings.

APPLICATION PROCESS: Apply online at: <https://hr.mit.edu/careers> applications must include cover letter and resume. Priority will be given to applications received by April 21, 2023; position open until filled.

ABOUT THE MIT LIBRARIES:

The MIT Libraries support teaching, learning, and research across the Institute, with millions of resources, deep expertise, and five campus locations where our community consumes and creates knowledge. Our organization is on an exciting journey of transformation, pursuing a digital-first model for research libraries and prioritizing an open scholarship agenda. We aim to exercise bold leadership in defining a model for research libraries in the future, with innovative spaces like the newly renovated Hayden Library and a focus on supporting data-intensive and computational research and learning.

We strive to do great things, powering the MIT community to solve complex problems in the service of humankind, and each member of our 146-person staff has a role to play in pursuing that vision. We're constantly adapting to the rhythms of a changing world, and we welcome candidates who can help us do that in thoughtful and strategic ways that center our mission and values.

MIT Libraries is an environment that welcomes any body, any mind — including all genders — and particularly encourages applications from underrepresented minorities, women, disabled applicants, and veterans. Professionals who enthusiastically embrace the empathy, courage, self-reflection, and respect of a multicultural, diverse, and inclusive workplace and who strive to incorporate those values in their work and interactions are encouraged to apply.

VISA SPONSORSHIP: MIT sponsors visas only for certain academic and research positions. MIT does not sponsor the following individuals for employment-based visas or for exchange visitor visas: students; technical, administrative, library, or support staff members; individuals with inadequate funding, insurance, or credentials; or those whose particular visa history precludes sponsorship.