Data Engineer - HigherEdJobs

higheredjobs.com/search/details.cfm

Data Engineer

University of Virginia
in Charlottesville, VA

Apply Now

Type: Full-Time
Category: Software Engineer/Programmer; +1 Database Administrator



Department Overview
The School of Engineering and Applied Science (SEAS) at the University of Virginia drives innovation in teaching, research, and service to society. The Data and Platform Services team empowers faculty, staff, and leadership with modern, accessible, and trusted data systems. We foster a collaborative, agile, and inclusive culture that values continuous improvement and impact.
Position Summary
The School of Engineering and Applied Science (SEAS) at the University of Virginia seeks

an experienced mid-level Data Engineer to join our Data and Platform Services team. This position will report to the Director of Data and Platform Services and will play a critical role in building and maintaining the school's data warehouse using Microsoft Fabric data lake technologies. The ideal candidate will have strong ETL development skills and experience working with diverse data sources to create a unified data architecture that supports the school's analytical needs.

Responsibilities

- Design, build, and maintain ETL pipelines using Python, PySpark, and Microsoft Fabric
- Develop and manage data lake architecture and data models for analytics and reporting
- Create semantic models and reusable data assets for Power BI dashboards
- Collaborate with stakeholders to understand and meet data needs
- Support data governance, quality assurance, and compliance efforts
- Document architecture, data lineage, and transformation logic for transparency
- Explore AI and LLM tools for future enhancements to data access and insight delivery

Minimum Qualifications

Education: Bachelor's degree in Computer Science, Data Science, Information Systems, or related field. Experience may substitute for degree.

Experience: At least 3 years of experience in data engineering or a related field.

Licensure/Certifications: None required.

Preferred Qualifications

Education: Master's degree in a related field

Experience:

- Experience working with higher education data systems
- Familiarity with API integration and web services
- Exposure to agile development methodologies and data quality frameworks
- Experience with LLMOps, scikit-learn, MLFlow

Licensure/Certifications: Certifications in cloud technologies or data platforms (e.g., Microsoft Azure, Databricks)

Physical Demands: This is primarily a sedentary job involving extensive use of desktop computers. The job occasionally requires traveling some distance to attend meetings and programs.

Salary Range: $88k-$110k/year. Salary will be commensurate with education and experience.

Position Type & Work Location

Exemption Status: This is an exempt-level, benefited position. Learn more about UVA benefits.

Work Arrangement: This position is based in Charlottesville, VA. For this position, on-site work is required.

About UVA and the Community: To learn more about UVA and the Charlottesville area, visit UVA Life and Embark CVA.
Application Timeline: Application review will begin after October 27, 2025.
Additional Requirements
Background Check: Background checks will be conducted on all new hires prior to employment.
Visa Sponsorship: This position **will not** consider candidates who require immigration sponsorship now or in the future.
How to Apply
Please apply Online, by searching for requisition number **R0073764**. Complete an application with the following documents:

- Resume
- Cover Letter

Upload all materials into the resume submission field. You can submit multiple documents into this one field or combine them into one PDF. Applications without all required documents will not receive full consideration.
Reference Check Process: Reference checks will be completed by UVA's third-party partner, SkillSurvey, during the final phase of the interview. Five references will be requested, with at least three responses required.
Contact: For questions about the application process, please contact: **Bill Crane**, Senior Recruiter, at **Xer5ff@virginia.edu**

The University of Virginia is an equal opportunity employer. All interested persons are encouraged to apply, including veterans and individuals with disabilities. Click here to read more about UVA's commitment to non-discrimination and equal opportunity employment.

Related Searches:

- Software Engineer/Programmer
- Database Administrator

© 2026 HigherEdJobs. U.S. Patent 8,548,928