



EDM GIS Data Analytics Lead I Instructions

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EDM GIS Data Analytics Lead



GIS Data Analytics Lead I

Summary/Objective

EDM International, Inc. is seeking a GIS Data Analytics Lead to support the GIS Manager by performing geospatial analysis and modeling centered around electric utility infrastructure, with an emphasis on wildfire and asset risk modeling. This position has an opportunity to further branch out into other disciplines such as LiDAR, data science, machine learning/AI, geostatistics, and GIS web app development. If you like problem-solving, continuous learning, and are a visionary who wants to grow your career, consider joining the EDM Team.

Essential Duties and Responsibilities:

- Creating and deploying GIS-based models and dashboards in support of the Wildfire Mitigation, Utility Services, and Environmental Services teams
- Creating data pipelines and process flows
- Automation of geoprocessing workflows via software or scripting
- Development of QA/QC and data validation protocols
- Database design/schema development and data management
- Reviewing or applying AI and machine learning concepts to modeling outputs and solutions
- Providing ad-hoc SME support to Geospatial Solutions and GIS Operations sub-sectors

Preferred Qualifications/Experience:

- B.S./M.S. in Geography, Data Science, Computer Science, Environmental Science or related field.
- 5+ years of experience in GIS-related positions
- GISP or GISP-eligible
- Proficiency in ArcGIS Pro, Modelbuilder, and Spatial Analyst
- Proficiency in R, FME and dashboards, such as Operations Dashboard, Power BI, or Tableau
- Proficiency in both vector and raster analysis
- Proficiency in Python, particularly in the Esri environment
- Geodatabase design, data model design and management
- Proficiency in GIS web services, and creating apps within ArcGIS Online or ArcGIS Portal
- Knowledge base in fundamentals and resources pertaining to machine learning and AI
- Knowledge base in wildfire science
- Knowledge base in electric utility operations and asset management
- Foundational knowledge of statistics, data analytics, and data science
- Knowledge of PostgreSQL and/or SQL Server, including query views and ad-hoc queries
- Experience with APIs, including Esri Python, Esri JavaScript, and Esri REST
- Strong working knowledge of IT, networking, and Windows servers

Specifications:

- Position: GIS Data Analytics Lead I
- Experience: 5+ years in GIS-related positions
- Preferred Qualifications: B.S./M.S. in Geography, Data Science, Computer Science, Environmental Science or related field
- Skills Required: Proficiency in ArcGIS Pro, Mode builder, Spatial Analyst, R, FME, Python, and various dashboards
- Salary Range: \$80,000 – \$100,000 annual salary

Product Usage Instructions

- Creating and Deploying GIS-based Models and Dashboards:
To support Wildfire Mitigation, Utility Services, and Environmental Services teams, use ArcGIS Pro, Modelbuilder, and Spatial Analyst to create and deploy GIS-based models and dashboards.
- Data Pipelines and Process Flows:
Create data pipelines and process flows to streamline data management processes using automation tools and scripting languages.
- Geoprocessing Workflows Automation:
Achieve automation of geoprocessing workflows by utilizing software or scripting languages for efficient data processing.
- QA/QC and Data Validation:
Develop QA/QC protocols and data validation procedures to ensure data accuracy and reliability.
- Database Design and Management:
Design database schemas and manage data effectively using geodatabase design principles.
- AI and Machine Learning Applications:
Apply AI and machine learning concepts to modeling outputs and solutions for enhanced data analysis.

- SME Support and Knowledge Base:

Provide ad-hoc SME support to Geospatial Solutions and GIS Operations sub-sectors by leveraging knowledge in GIS, data science, and related fields.

FAQ:

- **What are the preferred qualifications for the GIS Data Analytics Lead I position?**

The preferred qualifications include a B.S./M.S. in Geography, Data Science, Computer Science, Environmental Science or related field, along with 5+ years of experience in GIS-related positions.

- **What software skills are required for this role?**

Proficiency in ArcGIS Pro, Modelbuilder, Spatial Analyst, R, FME, Python, and various dashboards such as Operations Dashboard, Power BI, or Tableau are required for this role.

- **What is the work environment like for this position?**

- This position operates in a professional office environment using standard office equipment. The noise level is usually quiet, and physical demands include sitting, speaking, listening, occasional standing, walking, and lifting up to 25 pounds.

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Competencies

- Continuous Learning
- Results Driven
- Problem Analysis and Critical Thinking
- Technical Orientation
- Process Management
- Leading, Modeling & Visioning
- Communication

Supervisory Responsibility: None

Position Type/Expected Hours of Work:

This is a full-time exempt/salary position

Work Environment/Physical Demands:

- This job operates in a professional office environment and routinely uses standard office equipment such as computers, phones, photocopiers, filing cabinets and fax machines. The noise level in the work environment is usually quiet.
- The employee is regularly required to sit, speak and listen. The employee is occasionally required to stand, walk, and lift or move up to 25 pounds.

Other Duties:

The above job description is not intended to be an all-inclusive list of responsibilities and performance standards of the position. Incumbents will perform other job-related duties as assigned.

Salary Range: \$80,000 – \$100,000 annual salary

Benefits Include

- Health Insurance (Medical, Vision, and Dental)
- STD / LTD/ Life Insurance

- 401(k)
- Paid Leave (Holiday, Vacation, Sick, etc.)
- Wellness Program
- Development Opportunities

Special Requirements – Pre-employment checks will require satisfactory results of the following screens:

- Background Check
- Motor Vehicle Driving Record
- Drug Test (including controlled substances)
- Education and Employment Confirmation
- Reference Checks


About EDM

An employee-owned corporation, we're a fun, smart, and talented group of people who genuinely enjoy our work and make a difference! Whether it's engineering, asset management, geospatial, wildfire mitigation, or environmental solutions, we support our utility clients in positive and innovative ways, to contribute to society and sustainably manage and protect the natural environment.

EEO Statement EDM is an Equal Opportunity Employer.

To Apply: Upload resume and cover letter on Indeed OR to apply by email see instructions on EDM website at: <https://edmlink.com/careers> and send a cover letter and a resume to jobs@edmlink.com

Documents / Resources

	<p>EDM GIS Data Analytics Lead I [pdf] Instructions GIS Data Analytics Lead I, Data Analytics Lead I, Analytics Lead I, Lead I</p>
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References

- [User Manual](#)

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