

Job Title: Junior Geospatial Analyst / Data Scientist
Job Level: Project Support (PS1 / IC1)

Purpose of the Job

The primary purpose of a Junior Analyst / Data Scientist is to leverage data-driven insights to empower clients in making informed decisions and support the company in improving its service offerings. Through intermediate analysis or forecasting as well as innovative problem-solving of complex issues they aim to uncover actionable insights that drive value for clients and contribute to their success. The Junior Analyst / Data Scientist continuously refines their analytical skills, communicates well both externally and internally and documents their work in order to deliver high-quality solutions to the company and its clients.

Responsibilities	Success Criteria
Data Pipelining and Analysis (70%)	
Understands project context	With support, thoughtfully engages with project materials and client context to develop a understanding of the business objectives of LGeo and its clients on a project by project basis
Pipelines data	Sources, evaluates, assures, and coerces diverse and disparate data sources into cohesive databases for analysis and modeling
Executes analysis to inform client objectives	Uses, with support, advanced tools such as network analysis, spatial analysis, 3d analysis, regression modeling, pandas, python and associated data modeling libraries to execute cutting edge data analysis for a wide variety of urban planning adjacent sectors
Executes quality assurance and control processes	With support from intermediate and senior staff, completes quality assurance and control processes that align with LGeo's goals, objectives and industry best practices resulting in high quality outputs for LGeo's technical deliverables.
Develops project outputs.	With outputs such as dashboards, numerical summaries or visual outputs for project deliverables, the analyst reviews outputs and determines, with support of senior staff, what information is effective to share with clients and the most appropriate method for doing so. Outputs are created with an eye towards actionable intelligence for clients.
Creates analytical outputs	Analytical outputs demonstrate a relative level of knowledge and provide value to the project team and LGeo's clients, as appropriate



Responsibilities cont'd	Success Criteria
Collaboration and Communication [30%]	
Project communication	Communicates with peers and relevant internal and external collaborators in a timely and efficient manner on subjects relating to the tasks they are working on. Communication is clear, direct, respectful and productive.
Project contributions	Contributes to a wide variety of projects and provides regular updates to sector lead regarding each project. Project team members indicate communication is effective and collaborative. Clients indicate that data and insights are received on time and in appropriate formats, ready to be used to make decisions, and any issues are flagged quickly. Data insights help project managers and clients clearly understand project progress and results
Project collaboration	Collaborates with team members to support project goals, timelines, and deliverables and advocate for opportunities to leverage data and information both across the organization and externally, if appropriate. Work efforts are broken down appropriately based on criteria as determined by project lead, sector lead or technical lead and expectations are clarified when necessary
Interpersonal communication	Handles interpersonal issues by finding mutually beneficial solutions and contributing to their implementation. Tense situations are approached with curiosity and a learning-mindset
Overall communication	Delivers and communicates results of moderately complex analyses on a regular basis to non-technical staff in other departments. Clients and other internal teams indicate that the communication of analyses results provide high-level explanations of technical concepts and how they apply to specific audiences in a clear and concise manner to help in the decision making process

Required Knowledge + Experience

- Possesses working knowledge of subject matter related to urban planning and its various facets (e.g. energy and emissions, housing, population and demographics, etc.)
- Generally, some post-secondary education in a relevant field such as planning, geographic information systems, civil engineering, geography etc.
- Advanced diplomas or certificates in GIS, data science, geomatics engineering or machine learning are preferred

Experience:

- 1-2 years experience consulting
- Working knowledge of desktop GIS and/or programmatic data pipelining
- Experience translating data analysis into business and operational insights through analysis, reporting, and visualization
- Working with deadlines and the ability to multitask using strong organizational and time management skills

Skills / Competencies	Description
Tools and Programs	<ul style="list-style-type: none"> • Understanding of Python and Excel skills as well as basic or advanced understanding of ArcGIS suite with the ability to learn other analytic tools • Advanced Analysis / Forecasting / Technical Documentation • Knowledge of data pipelining, data analysis, dashboards, and other data reporting tools to translate data into operational insights • Understanding of development and application of approach and methodologies
Languages and Communication	<ul style="list-style-type: none"> • Ability to communicate effectively and clearly with diverse audiences including internal team members and external partners • Ability to provide high-level explanations of technical concepts and how they apply to specific audiences in a clear and concise manner
Domain Expertise (not required but preferred)	<ul style="list-style-type: none"> • Long range urban planning and development • Permitting and development approvals • Housing • Sewer, water or storm infrastructure planning • Transit and urban transportation • Logistics and routing • Energy and emissions quantification and forecasting • Climate adaptation • Social equity

Why LGeo?

At LGeo we offer an employee-owned, flexible and inclusive work environment with generous pay and good benefits. We work in a dynamic practice area (applications of geospatial data to urban planning) that is constantly evolving being driven both by local and senior government policy as well as shifting data contexts. Our team is thus creative, collaborative, and always seeking to innovate as we navigate new challenges in deadline-driven work! If you enjoy collaborative, in-person** working environments working on multiple related projects then this is the job for you. Our office is located on the dynamic Commercial Drive, close to transit, retail and residential hubs!

**We offer a flexible, hybrid work environment, but require approximately 60% of time to be spent in the office due to the highly collaborative nature of our work. This is not a remote position.

Our salary range for this position is 65k-85k, dependent on relevant experience.

