DENVER REGIONAL COUNCIL OF GOVERNMENTS
OPEN POSITION ANNOUNCEMENT: Data Scientist
(September 2022)

The Denver Regional Council of Governments serves as a visionary leader along Colorado's front range. We tackle the BIG issues, like growth and development, transportation and meeting the needs of older adults. Our success is built on, and defined by, long-standing partnerships and serving as a forum for discussing these and other emerging issues in an effort to collectively find innovative solutions. DRCOG is a Regional Planning Commission per Colorado state statute, is the federally designated Area Agency on Aging (AAA), and the Metropolitan Planning Organization (MPO) for the Denver region. Our culture and values fuel and inform the work we do, and employees are rewarded with competitive compensation, generous benefits and an adaptable work environment. Sound like a good fit? We'd love to meet you!

DRCOG is adding a new Data Scientist to the Data Science and Analytics Team. This position will be integral to DRCOG socioeconomic forecasting work and will be tasked with helping to improve the quality of model inputs as well as the analysis and dissemination of model results to internal and external stakeholders. The Data Science and Analytics Team works primarily in Python, however other coding languages as well as GIS skills will be an asset.

ABOUT THE POSITION OF Data Scientist
- This class specification represents only the core areas of responsibilities; specific position assignments will vary depending on the needs of the Division.
- DATA: Organizes and maintains current and historical data input and outputs from various metropolitan planning organization (MPO)-related data system(s); wrangles disparate data; explores data and prepares it for analysis; determines appropriate data for specific uses; develops and implements methodology to monitor and improve data quality; assists with development data pipelines and data system architecture; safeguards protected other confidential information.
- ANALYSIS: Applies advanced statistical, spatial and other analytical techniques to discover quantitative insights from data; analyzes data and trends to improve data collection and reporting processes; uses program data to support case-making and innovation (e.g. new data sharing and integration protocols, data collection techniques, predictive tools, etc.); analyzes program data and data products in context of other data sources and products including demographic, socioeconomic, geographic etc.
- VISUALIZATION: Works with technical teams to visualize data through graphs, charts, tables, and maps to help examine and present data as easy-to-interpret information; determines appropriate visualization methods based on the audience and intended use; creates dynamic, online dashboards that serve information to internal and external audiences.
- REPORTS: Reviews all data that is reported and published to ensure accuracy, consistency and replicability; generates custom and routine reports; serves as the information hub in the publication workflow by supplying data and analyses to the communications team on the behalf of MPO program staff; works with MPO program staff to determine what data and analysis supports certain messages and ensures that data is used appropriately for story-telling and case-making; assists with development of annual data and publications schedules; works closely with teams to understand evolving needs for reporting and provides direction.
- DOCUMENTATION: Documents methodology for performing calculations and taking measurements required for reporting to ensure exact replication; maintains data sheets and citations for all reports so that they can be validated and reproduced.
- Performs other duties of a similar nature and level as assigned.
- Advanced principles and methods of qualitative and quantitative research
- Advanced principles of statistics and forecasting

- Principles of data visualization
- Effective communication techniques
- Familiarity with data in one or more of the following areas desired: public demographic (census), land use, economic and/or transportation-related spatial and tabular data
- Expertise in at least one programming language (e.g. SAS, R, Python) for data cleaning, management, and analysis (Python preferred)
- Attention to detail; ability to follow documented processes for repeatable results
- Professional verbal and written communication tailored to technical and non-technical audiences
- Critical thinking, using logic and reason to solve problems
- Exceptional customer service and building rapport
- Adapting to changing needs including learning new techniques, software and scripting languages
- Working independently with limited supervision; collaborating with a team
- Compiling, organizing, and standardizing disparate data
- Developing tools or otherwise automating procedures to collect, process, monitor or visualize data
- Expertise with relational database manipulation (i.e. Postgres, SQL).

Education and experience requirements:
- Bachelor's degree in statistics, mathematics, economics, data science or another closely related field with demonstrated course work in statistics/statistical analysis, research methodologies and analysis; and four years of experience. A Master's degree is preferred.   OR   An equivalent combination of education and experience sufficient to successfully perform the essential duties of the job such as those listed above, unless otherwise subject to any other requirements set forthin law or regulation.

LICENSING/CERTIFICATIONS:
- Valid Colorado Driver's License and access to an automobile or to substantively equivalentalternative transportation.

STATUS: Full-time, Exempt

COMPENSATION AND BENEFITS
The hiring salary range for this position is $6,816.66 - $8,520.84/month or $ 3,408.33 - $ 4,260.42/semi-monthly depending on qualifications.

APPLICATION PROCEDURE
To view the full job description, a complete listing of benefits, and to apply for this position, please visit our website at https://drcog.org/drcog-job-openings.

This position is open until 5:00 p.m. Mountain Time on Monday, September 26, 2022.

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or status as a protected veteran.