NewGen Strategies & Solutions

Job Posting – Data Engineer INTERNSHIP
(Lakewood, CO)

At NewGen Strategies and Solutions, our vision is to be the consulting company that makes a difference for our clients, our employees, and our community. Our values include making an impact, fostering innovation, expecting quality, cultivating community, and serving as a trusted advisor to our clients and community. We are searching for a Data Engineer Intern to join our team. The ideal candidate would be excited by the opportunity to develop new data engineering tools for the rapidly evolving energy industry.

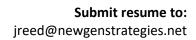### Desired Qualities in the Ideal Data Engineer Intern:

- Intellectually curious
- Attention to detail
- Focus on customer experience
- Stays calm in high-stress situations
- Collaborative team player
- Willingness to learn new skills
- Can synthesize large amounts of data
- Able to effectively use programming tools to solve problems (Python, cloud services, etc.)
- Critical and analytical thinker
- Currently pursuing a Master's degree or completed a Masters degree in relevant studies

Job Description

The purpose of a Data Engineer Intern is to learn how to manipulate, analyze, and build upon data in support of client engagements. In addition to data cleansing and aggregation, the Data Engineer Intern will focus on learning how to design and implement data pipelines and ETL (Extract, Transform, Load) processes for various use cases including utility-scale financial, technical, and operational data. Data outputs will be user-friendly and explainable, leveraging sophisticated reports, charts, and graphs. The successful candidate will work directly with senior consultants to diagnose issues and collaboratively design programmatic solutions.

The successful candidate will learn about the design, implementation, and execution of analytical solutions utilizing a variety of software systems and coding languages, including Python, cloud services (Google, AWS, and/or Azure), and Microsoft Excel. Primary job duties and responsibilities will include:

- Utilize applicable coding languages to design replicable and unique data solutions.
- Build and maintain data pipelines and ETL processes.
- Work independently and with various internal and external project teams.
- Conduct research on data engineering techniques and successfully integrate results.
- Learn analytical methods and methodology to benefit external clients.
- Interpret results of data analytics and present findings clearly and efficiently.

- Clearly communicate techniques and results with clients and project team members.
- Support all other project work, as directed.

Our intern program serves to give undergraduate and graduate students first-hand experience with consulting at NewGen.

Qualifications

The successful candidate will have the following qualifications:

- Pursuing a Master's or PhD in a quantitative field (e.g., Engineering, Physics, Computer Science).
- Problem-solving and data analytical capabilities.
- Ability to work collaboratively within a team and communicate effectively with colleagues and clients.
- Proficiency in the English language and ability to communicate effectively using verbal, written, and visual graphic skills.
- Background with financial and/or utility systems and experience with SQL, R, STATA, and/or SAS is a plus.
- Experience with other coding languages/platforms for advanced analytics is also desirable (Linux, Bash, PowerShell, Java).
- Experience with APIs and web scraping is considered a plus.
- Knowledge of Power Query, PowerPivot, Power BI, and working in Excel's Data Model coding in DAX language and writing VBA is considered a plus.

Additional Information

- **Location**: Lakewood, Colorado
- **Employee Type**: Part-time
- We offer a competitive hourly wage based on prior experience. This is a temporary part-time position and is not eligible for benefits. Start and end dates are flexible.
- **Base Compensation**: $25 per hour
- The range provided is NewGen's reasonable estimate of the base compensation for this role. The actual amount may be higher or lower, based on non-discriminatory factors such as location, experience, knowledge, skills, and abilities.