Co. Reg. No. 200615489W
8 Jurong Town Hall Road
#23-05 JTC Summit
Singapore 609434
Phone: (+65) 6665 2015
http://www.D-SIMLAB.com

Job Description: Data Analyst

As a Data Analyst at D-SIMLAB Technologies, you will play a key role in deriving insights from large datasets to optimize semiconductor manufacturing processes. This role focuses on data extraction, analysis, and actionable insights, while collaborating with cross-functional teams to develop and deploy D-SIMLAB's software products as well as provide professional consultation services to our clients. The ideal candidate is someone who excels in data-driven analysis and is eager to work on high-impact projects in the semiconductor industry.

Key Responsibilities:

- **Data Extraction and Analysis**:
  Collect, clean, and analyze large datasets from semiconductor manufacturing environments to ensure data consistency, completeness, and correctness.
  Use statistical methods and data mining techniques to identify patterns, trends, and anomalies that impact production performance.
- **Performance Evaluation**:
  Analyze the gap between planned and actual production outcomes. Identify root causes for performance deviations and recommend data-driven strategies for process improvement. Develop reports and visualizations to present findings to clients and internal stakeholders.
- **Data-Driven Insights**:
  Provide actionable insights based on data analysis to optimize semiconductor manufacturing processes. Work closely with clients to understand their specific needs and translate data findings into operational and strategic improvements.
- **ETL and Data Modeling**:
  Build and maintain ETL processes to integrate data from various sources into D-SIMLAB's data models. Collaborate with simulation modeling teams to ensure accurate and reliable data is fed into models.
- **Consultation Services**:
  Act as a trusted advisor to clients by offering data-driven recommendations for enhancing their production efficiency. Present analyses and proposals to both technical and non-technical stakeholders, ensuring clarity and actionable takeaways.
- **Data Visualization and Reporting**:
  Create dashboards and reports using advanced data visualization tools to communicate key insights and trends effectively. Continuously improve reporting mechanisms to provide real-time insights and support ongoing optimization efforts.
- **Collaboration with Teams**:
  Work with Software Engineers, Data Scientists, and other cross-functional teams to ensure that data insights align with product goals and customer needs. Contribute to product enhancement initiatives, focusing on the improvement of data-related components and analytics.

Candidate Requirements:

- **Education**:
  Bachelor's/Master's degree in Data Science, Computer Science, Industrial Engineering, or a related field.

Co. Reg. No. 200615489W
8 Jurong Town Hall Road
#23-05 JTC Summit
Singapore 609434
Phone: (+65) 6665 2015
http://www.D-SIMLAB.com

- **Experience**:
  Strong analytical skills with a minimum of 2 years of experience in data analysis, preferably in an industrial environment. Semiconductor experience is a plus.
- **Technical Skills**:
  Proficiency in SQL and Microsoft Excel.
  Experience with data visualization tools (e.g., Power BI, Tableau) is highly desirable.
  Experience with ETL processes and database management.
- **Analytical Abilities**:
  Strong problem-solving skills and the ability to handle large datasets and deliver actionable insights to improve operational performance.
- **Soft Skills**:
  Ability to work collaboratively in a multicultural, multidisciplinary team.
  Excellent communication and presentation skills, with the ability to convey complex data insights to non-technical stakeholders.
- **Willingness to Travel**:
  Willing to travel for international projects and collaborate closely with clients and internal teams.