Data Analyst
For GCC Nationals

ROLE SUMMARY:

- The post holder is a data professional who uses his expertise in data engineering and programming to build systems that collect, manage, and convert raw data into usable information for business analysts. As a Data Engineer in AGU, the post holder plays a crucial role in ensuring efficient data processing and reliable data systems.

EDUCATION AND EXPERIENCE:

- Bachelor's degree or higher in a relevant field such as computer science, data engineering, information systems, statistics, or a related quantitative field.
- 5+ years of progressive data engineering experience or in relevant domain.
- Proficiency in programming languages commonly used in data engineering such as Python, Java, Scala, or SQL is often required. Experience with scripting languages like Bash or PowerShell may also be beneficial.
- Familiarity with database concepts, including data modeling, query optimization, and database management systems (e.g., PostgreSQL, MySQL, Oracle, MongoDB).
- Understanding of data warehousing concepts and experience with related technologies like Amazon Redshift, Google BigQuery, or Snowflake.
- Knowledge of ETL tools and techniques used to extract data from various sources, transform it, and load it into target systems.
- Experience in designing, building, and maintaining data pipelines and workflows to enable efficient and reliable data movement and transformation.
- Ability to design and implement efficient data models that meet the requirements of the organization's data infrastructure and analytical needs.
- Understanding of data quality best practices and experience implementing data quality checks and governance processes.
- Familiarity with cloud platforms such as Amazon Web Services (AWS), Microsoft Azure, or Google Cloud Platform (GCP) and experience with related services like AWS Glue, Azure Data Factory, or GCP Dataflow.
- Strong teamwork and communication skills are crucial for collaborating with cross-functional teams, including data scientists, analysts, and stakeholders.

ACCOUNTABLE TO:

- Director, Information Technology Center

DEPARTMENT HEAD:

- Director, Information Technology Center

1 MAIN RESPONSIBILITIES:

1.1 Works with diverse data sources, extracting relevant information and organizing it for further processing.

1.2 Construct robust data pipelines that facilitate data flow from various sources to storage and analysis platforms.

1.3 Optimize data sets and 'big data' data architectures.

1.4 Collaborate with stakeholders to understand business requirements and translate them into technical solutions.

1.5 Align data systems with university goals.

1.6 Use statistical analysis and data visualization techniques to identify trends, patterns, and anomalies.

1.7 Dive deep into data to extract meaningful insights.

1.8 Perform root cause analysis on internal processes and data.

1.9 Cleanse, transform, and preprocess data for machine learning and analytics.

1.10 Develop and test algorithms to enhance data processing efficiency.

1.11 Prototype new data solutions.

1.12 Explore ways to improve data quality, consistency, and reliability.

1.13 Identify opportunities for data acquisition.

1.14 Work closely with data scientists to ensure seamless integration of data solutions.

1.15 Collaborate on various projects related to data analytics and research.

2 STAFF DEVELOPMENT

2.1 Act as a role model by presenting a positive and dynamic image.

2.2 Participate in relevant in-service education and induction programs.

2.3 Actively participate in Staff Development and Performance Review.

3 CONFIDENTIALITY

3.1 Ensure that confidentiality is maintained at all times in conjunction with the organizations confidentiality policy.