Institution	Rwanda Green Fund (FONERWA).
Job Title:	**Data Science and Research Specialist**
Administrative Unit:	IT Team
Job Level and Grade:	3.II
IV:	500
Index:	1369
Report to:	Business Analyst
Responsible for:	N/A
Functions	**Tasks**
Data analysis	- Work with the institution and partners to identify opportunities for leveraging existing data to drive business solutions. - Identify valuable data sources and automate collection processes. - Undertake preprocessing of structured and unstructured data. - Analyze large amounts of information to discover trends and patterns. - Retrieves data from internal and external sources and data files in order to keep internal databases current and usable. - Enhancing data collection procedures to include all relevant information for developing analytic systems for the organization and its partners - Support in data collection, cleaning, compiling, analysis for projects and programs - Advice and recommend data collection tools by the organization, and partners - Support in developing data collection tools - Mine and analyze data from existing and future data registries to drive optimization and improvement. - Assess the effectiveness and accuracy of new data sources and data gathering techniques across the institution. - Formulate and lead guided analytic studies against large volumes of data. - Interpret and analyze data using exploratory mathematic and statistical techniques based on the scientific method. - Coordinates research and analytic activities utilizing various data points (unstructured and structured) and employ programming to clean, massage, and organize the data. - Analyze data related problems and determine root causes. - Works closely with Business Analyst to develop strategies for long term data platform architecture. - Develop custom data models and algorithms to apply to data sets. - Use predictive modeling to increase and optimize customer experiences
Database management	- Designs database systems and management tools. - Install, update, and maintains databases. - Manage database and ensure the integrity of data. - Secures database by preparing access and control policies and procedures and implementing disaster recovery procedures. - Supports application design by contributing expertise to operations and technical support teams.
Job Specifications/Profile	
Relevant Qualifications	

Master's Degree in Data Science, Operations Research, Industrial Engineering, Applied Mathematics, Statistics, Information Management, Computer Science with 1 year of professional experience. Or Bachelor's Degree (A0)/Advanced Diploma in Data Sciences, Operations Research, Industrial Engineering, Applied Mathematics, Statistics, Information Management, Computer Science with 2 years of professional experience.
Required Experience
1 Year with Masters, 2 Years for Bachelor.
Required Competencies
- Proficient with one or more programming languages (Java, C++, Python, R, etc.)   - Demonstrated experience applying data science methods to real-world data problems   - Experience utilizing visualization tools (list) to take advantage of the growing volume of available information   - Experience writing SQL queries and ETL procedures   - Experience working with data warehouses and data visualization/BI tools   - Experience in database interrogation and analysis tools, such as Hadoop, SQL and SAS   - Experience with NoSQL databases, such as MongoDB, Cassandra, and HBase   - Strong familiarity with machine learning techniques and algorithms.   - Ability to predict trends and identify patterns   - Strong familiarity with statistics   - Analytical/technical mindset