Job Title:	Data Scientist		
Department:	Natural Resources	Section:	Scientific
Reports to:	Head of Fisheries Science / Head of Agriculture		
Grade:	Falkland Islands Government Grade – D1	Job Code:	326DA1

Overall Purpose of the Role

To provide data management and analysis expertise to support operations, decision making and extension activities in the Departments of Fisheries and Agriculture.

Key Role Activities

- To manage the input, validation, and quality assurance of new and historic production and economic data to Fisheries, Agriculture and Minerals Departments' databases.

- To develop and implement online reporting systems for agriculture, fisheries data and grants.

- To review and update database programmes and queries.

- To provide data and other relevant information for assessment and population dynamics modelling of commercial fish and squid stocks, licencing advice, and related fisheries research projects.

- To provide longitudinal analyses of trends in productivity and quality of key natural resources products (e.g. wool, meat, squid).

- The post is also responsible for mentoring the Fisheries Data Manager.

- Ensure that all data received, or collected by the Directorate, are maintained in secure databases and subject to quality control.

- Evaluate and develop mechanisms for robust and/or online collection of data to support the Directorate's reporting on the natural resources economy.

- Complete audits of historic and current datasets and data collection procedures to ensure data are secure and available to inform strategic decision-making.

- Maintain electronic data collection procedures, hardware and software for the capture of key production data (e.g. livestock health, wool production and wool quality).

- Collaborate with other FIG departments to ensure collection and secure storage of environmental monitoring data from existing and development sensor networks.

- Utilize weather data to evaluate patterns in natural hazards such as environmental exposure for livestock and wildfire danger

- Develop benchmarks for key production indices and provide annual reports to relevant stakeholders.

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Key Role Activities continued

- Provide advice to stakeholders on best-practices in data collection and management.

- Liaise with the Falkland Islands Government IT Dept. and other IT Service Providers as required.

- Provide training to Natural Resources staff in data management, validation and analysis procedures, to achieve a high proficiency and excellence in this aspect of the relevant Departments' operations.

- Undertake other data management and data analysis tasks as necessary.

The job description is not an exclusive or exhaustive definition of your duties. You shall undertake such additional or other duties as may reasonably be required by FIG commensurate with your role and grade.

Person Specification:	Data Scientist

Criteria	Essential	Desirable	Assessment Method
Knowledge, Skills & Experience			
At least two years' experience of environmental or biological data management or data analysis, or other relevant discipline.	✓		A/I/R
A good understanding of database principles and programming skills.	✓		A/I/R
High degree of IT literacy.	✓		A/I
A strong working knowledge of relevant programming languages (e.g. R, SQL) and statistical applications.	✓		A/I
Ability to produce reports in English.	✓		A/I/R
Experience of managing and supervising others.		✓	A/I/R
Good understanding of data collection, management and quality control issues.		✓	A/I
Understanding of commercial fisheries and/or agriculture.		✓	A/I
Personal Attributes:			
Ability to meet deadlines.	✓		I/R
Ability to work effectively as a member of a small team.	✓		I/R
Flexibility	✓		A/I
Willingness to take on new tasks.	✓		A/I/R
Ability to learn new skills.	✓		A/I/R
Ability to work tactfully with confidentially acknowledging the sensitivity of information in a small community	✓		A/I/R
Alignment with FIG's Core Values – Diverse, Professional, Resilient & Resourceful	✓		I/R
Capacity to undertake out of hours and weekend working		✓	I
Qualifications & Training			
Qualified to BSc level in a relevant subject with a high numerical/statistical/IT content, or equivalent qualifications or experience showing particular strengths in these areas	✓		A/I/R

Person Specification:	Data Scientist			
Criteria		**Essential**	**Desirable**	**Assessment Method**
Qualifications & Training continued:				
Post-graduate degree (MSc or equivalent) in Environmental, Biological, Agricultural Science or other related subject.			✓	A/I/R
Post-graduate training in applied statistics spatial statistics, GIS, computer programming, or database design			✓	A/I/R
Training / certification in computer programming, database design, development or administration, SQL server software.			✓	A/I/R
Note to Applicants: Please ensure that you demonstrate your ability to meet the requirements of the job in your application form by giving clear, concise examples of how you meet each criterion.				

Method of assessment:

A - Application Form   I - Selection Interview   R – Reference   O - Other