JOB DESCRIPTION & PERSON SPECIFICATION

1. Job title: Software Developer (24 Months) **Centre:** BS/IT **Grade:** D **Location:** NIAB HQ

Reports to (Job title)**:** Senior Developer **Line Manages** (Job titles)**:** None

2. Main purpose of role:

- Develop software to translate and implement internal mathematical/agricultural models to be deployed within an existing and evolving platforms.
- Work with existing APIs and microservices to implement new features on a diversity of computing platforms.
- Help maintain and monitor the platforms on a regular basis.
- Work alongside existing team members on other projects as required.

3. Financial authority/responsibility (e.g. delegated budget, authorisation level, approx value of contracts etc)**:**

None

4. Key relationships (external and internal):

- To provide local and remote user support, requiring an understanding of requirements, issues and explaining how to use systems/applications.
- External suppliers – advise on requirements and to discuss issues.
- Work with 3rd party developers who access and provide data and computing infrastructures and APIs.
- Provide advice and support to users within the organisation.

Tasks/responsibilities (in order of priority)	Approx % of time
Software development	50
Software testing	15
Platform administration, maintenance and support	15
Software support	10
Background research and personal training	10

6. Working conditions :

This is an office based job, although some applications may involve working in the (agricultural) fields where equipment is machine mounted or where the applications involve field data collection. Normal office hours are anticipated with occasional need to work out of hours and very seldom to work at a weekend, if necessary.

Travel to remote NIAB sites may be required to visit staff with IT requirements, to install software or examine how software is actually used.

Travel to events, collaborating organisations and suppliers premises will occasionally be required.

7. PERSON SPECIFICATION

Education/Qualifications:

Essential:	Desirable:
• Degree in computing science, mathematics or a science-based discipline	• Postgraduate degree in computing science, mathematics or a science-based discipline

Experience:

Essential:	Desirable:
• 12 months minimum software development	• 24 months development, testing and debugging • Scientific software development.

Specialist Training:

Essential:	Desirable:
• Experience with statistical programming languages such as R • Strong mathematical modelling or scientific computing skills • Strong OOP skills (Java, Python or equivalent) • Git experience (pushes and merges) • SQL (any variant) skills • Working with and/or developing APIs • Proven track record in enterprise-level software development.	• Java servlets/application frameworks • PostgreSQL experience • Scientific software development • Continuous Integration • Linux environment including scripting • Data visualisation experience • Front-end GUI development

Personal Qualities (skills, behaviours and competencies)

Essential:	Desirable:
• Good planning abilities • Problem solving abilities • Good communication skills • Ability to work in a team	• Ability to specify a development task

Date of description: 3rd August 2017	**Compiled by: Justin Dyson and Mario Caccamo**