# JOB DESCRIPTION & PERSON SPECIFICATION

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| **1. Job title:** **Senior Research Scientist** **Centre:** Genetics and Breeding **Grade:** E |
| **Location:** **Bingham Building** |
| **Reports to:** Keith Gardner, Programme Leader in Quantitative Genetics **Line Manages:** None |

**2. Main purpose of role:**

- To curate and analyse crop genetics data within the Genetics and Breeding Section at NIAB. This will include data from several research council-funded grants, and projects with commercial partners. Initially, the post-holder will largely work on genetic mapping and QTL mapping on projects involving NIAB's wheat MAGIC populations.
- To report and disseminate results of analyses.
- To provide data analysis advice and support to colleagues across projects.

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

None

**4. Key relationships** (external and internal)**:** The post-holder will work primarily with Keith Gardner but is expected to liase on a day to day basis with all staff in Genetics and Breeding and elsewhere in NIAB as occasion demands, providing support in design of experiments and data analysis.

| **Tasks/responsibilities** (in order of priority) | Approx % of time |
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| Data analysis of current projects | 60% |
| Provide data analysis advice and help to colleagues | 20% |
| Preparing reports, attending internal meetings, general admin, departmental duties (HSE, lab steward etc) | 5% |
| Dissemination activities (scientific publications, posters, talks, events) | 5% |
| Developing own research interests | 10% |

**6. Working conditions :** Mainly office based, with occasional UK or overseas travel for project meetings of conferences.

**7.   PERSON SPECIFICATION**

**Education/Qualifications:**

| Essential: | Desirable: |
|---|---|
| Relevant BSc.<br>PhD in quantitative genetics, plant genetics, or similar, with evidence of specialisation in data analysis. | |

**Experience:**

| Essential: | Desirable: |
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| Experience of statistical analysis.<br>Experience of genetic data analysis.<br>Good knowledge of a statistical package, preferably R or GenStat. | Experience of curation and analysis of large data sets.<br>Good knowledge of experimental design.<br>Some experience of bioinformatic analysis.<br>Programming skills (e.g. python).<br>Knowledge of plant breeding and crop science. |

**Specialist Training:**

| Essential: | Desirable: |
|---|---|
| Statistics or Quantitative Genetics | .<br>Bioinformatics. |

**Personal Qualities (skills, behaviours and competencies)**

| Essential: | Desirable: |
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| Ability to work independently, once given adequate training.<br>Ability to work in a team.<br>Presentation skills (both written and verbal). | Positive attitude to challenges, views problems when they arise with creativity.<br>Enthusiasm for developing new ideas.<br>Driving license. |

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| **Date of description:**       26/04/18 | **Compiled by:** Keith Gardner |