JOB DESCRIPTION & PERSON SPECIFICATION

1. **Job title:** Post-doctoral Researcher   **Centre:** Genetics & Breeding   **Grade:** E   **Location:** Bingham Building, Cambridge

Reports to (Job title)**:** James Cockram (Group Leader)

Line Manages (Job titles)**:** not applicable

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2. **Main purpose of role:**

   (1) Carry out postdoctoral work on the BBSRC project Wheat Pan-Genomics (C-101865). Involves: QC, analysis and curation of large-scale GbyS and SNP data including haplotype inference using imputation; integrated bioinformatics and genetic mapping in a multi-parent population; QTL mapping, linkage and segregation analysis. Present results at meetings and conferences. Write reports and papers. Visit and coordinate with partner institutes, help supervise visiting staff/students. (80% time)

   (2) Provide help and assistance to colleagues across projects (20% time).

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3. **Financial authority/responsibility** (e.g. delegated budget, authorisation level, approx value of contracts etc**):**
None

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4. **Key relationships** (external and internal)**:** James Cockram (NIAB Project Manager), Keith Gardner (NIAB), Mario Caccamo (NIAB), Alison Bentley (NIAB), Mike Bevan (JIC) and Matt Clark (Earlham Institute, Overall Project Leader).

Tasks/responsibilities (in order of priority)	Approx % of time
Project genetic and bioinformatics analysis	65%
Dissemination activities (papers, posters, talks, events)	10%
Coordination with project partners, project meetings, admin	5%
Provide help and assistance to colleagues across projects	20%

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6. **Working conditions:** Office based. Some out of hour's duties may be required. Ability to travel to national project meetings required.

7. PERSON SPECIFICATION

Education/Qualifications:

Essential:	Desirable:
Relevant BSc PhD in quantitative genetics, plant genetics, or similar.	MSc or PhD in plant/crop genetics

Experience:

Essential:	Desirable:
Genetic data analysis, including genetic mapping Proficiency in programming in the R environment Some experience of using bioinformatics software packages Familiarity with the Unix computing environment Presenting and publishing scientific work	Genetic analysis in multi-parent populations Analysis of Next-Generation Sequencing data Cereal molecular genetics and genomics Scripting languages such as Python or Perl Supervision of students/visiting scientists

Specialist Training:

Essential:	Desirable:
None	Statistics Bioinformatics Quantitative genetics

Personal Qualities (skills, behaviours and competencies)

Essential:	Desirable:
Ability to work independently, once given adequate training. Ability to work in a team. Presentation skills (written and verbal). Willingness to travel nationally and internationally for project meetings and conferences.	Positive attitude to challenges, views problems when they arise with creativity; enthusiasm for developing new ideas. Driving license

Date of description: 17/01/17   **Compiled by:** Keith Gardner and James Cockram