

Research Associate: Computational Biology / Bioinformatics (Available on a full or part-time basis)

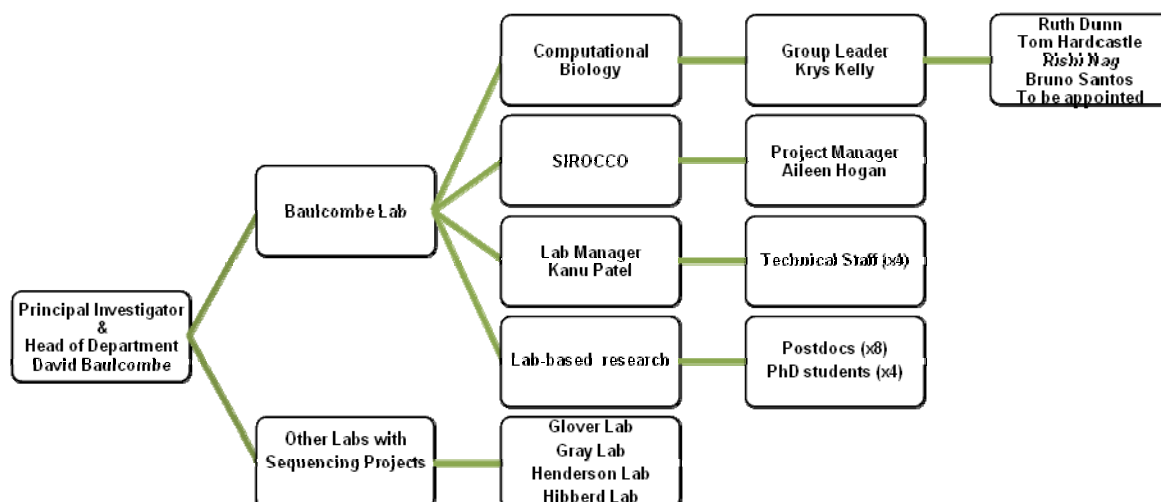
Further Particulars

**Vacancy Reference: PD06853**

**Salary: £27319-£35646**

The appointed candidates will be eligible to join the University pension scheme.

### Organisational Chart



### Aims of the Position

Several research groups in Plant Sciences are using Illumina Solexa high throughput sequencing in studies of small RNAs (Baulcombe Lab), transcription (Hibberd, Glover Labs), SNP discovery (Gray Lab) and recombination (Henderson Lab). The appointee will be responsible for the development and maintenance of the data processing pipeline and working with biologists on downstream analyses of the data. This will include:

- Developing and implementing methodology for transcriptome assembly and analysis for organisms without a reference genome sequence, with application in studies of C3/C4 photosynthesis
- Collaborating with biologists on a wide variety of project specific data analyses using high throughput sequencing and other data
- Development of a reporting system for the pipeline to include quality analysis and management information
- Development of metadata definition and capture and the production of a system for automating submission of the data to public data repositories

- Liaising with the sequencing centre and departmental users about sample submission, data return and the results of preliminary quality analysis

Further information is available on the Department website at <http://www.plantsci.cam.ac.uk/>.

### **Person Specification**

We are looking for an individual with knowledge of biology and bioinformatics with strong computational skills and experience. You should also have good consultancy and communication skills, with the ability to work independently or as a member of a team.

The table below lists the specific qualifications, skills and experience we are looking for.

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#### *Qualifications, skills and experience*

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Degree or equivalent in a relevant discipline	Essential
Biological and/or bioinformatics knowledge	Desirable
Experience of a scripting language e.g. Perl, Python	Essential
Design and implementation of relational databases	Essential
Ability to develop web-based user applications	Desirable
Scripting skills with object-oriented Perl or BioPerl.	Desirable
Experience of the R statistical language	Desirable
Experience of genome-oriented databases and genome browsers	Desirable
Experience of IT life cycle methodology	Desirable
Experience of working in a Unix environment	Essential

To apply, please send a covering letter, a completed CHRIS/6 form, a CV and the names and contact details (including email addresses) of 3 referees to Ombretta Orsini, either by email (oo203@cam.ac.uk) or by post (Department of Plant Sciences, Downing Street, Cambridge, CB2 3EA)

Quote Reference: PD06853 **Closing Date: 26<sup>th</sup> July 2010**