

**POSTDOCTORAL RESEARCH ASSISTANT – BIOINFORMATICS**  
**Grade 7 (Salary £28,839 – £31,513)**

**ANALYSIS OF EUKARYOTIC GENE REGULATION**

An exciting opportunity for a skilled bioinformatician/computational biologist to play a significant part in a £1million BBSRC funded project that will combine cutting-edge technology for computational analysis and DNA sequencing with molecular genetics to answer fundamental questions in gene regulation.

The project is a collaboration between the bioinformatics research group of Prof. Geoff Barton and the molecular biology group of Dr Gordon Simpson and will exploit massively parallel “Next Generation” sequencing to dissect the mechanisms and roles of alternative polyadenylation (pA) in eukaryotic gene regulation. Although this mode of gene regulation is common in eukaryotes with around 50% of human genes having more than one site of pA, it is surprisingly poorly understood. The project will extend understanding of this fundamental mechanism through cycles of “dry” research by the bioinformatics PDRA and “wet” experimentation by a second RA based in Dr Simpson’s laboratory.

We seek a highly motivated individual with strong computational skills, who is able to adapt to new research challenges and acquire new computational and data analysis skills as required.

Essential experience: normally 3-years minimum demonstrated programming/development experience with at least one of – Perl, Python, Java, C/C++ in a Unix/Linux environment; Knowledge of statistics. Desirable experience: Familiarity with molecular biology/structural biology concepts and principles; SQL database design and development; Knowledge of standard bioinformatics tools, algorithms and techniques.

The Barton Bioinformatics Group provides an excellent environment for bioinformatics research that includes dedicated high-performance computing facilities and support staff.

Dundee is a centre of excellence in life sciences research and combines quality of life with quality of science. Consistently topping polls of best places to work in The Scientist magazine, staff of more than 50 different nationalities create a vibrant international working environment, with a particularly active Post-Doc Association.

Geoff Barton’s lab web site: [www.compbio.dundee.ac.uk/](http://www.compbio.dundee.ac.uk/)

Gordon Simpson’s lab web site: [www.lifesci.dundee.ac.uk/groups/gordon\\_simpson/](http://www.lifesci.dundee.ac.uk/groups/gordon_simpson/)

The position is full-time for 3 years.

**HOW TO APPLY:**

Applications in the form of a CV and covering letter, including the names and addresses of 3 referees and a list of publications, should be sent to [HR-LifeSciences@dundee.ac.uk](mailto:HR-LifeSciences@dundee.ac.uk) quoting **LS/3083**. Alternatively, please send 2 hard copies of your CV and covering letter to Human Resources, College of Life Sciences, MSI/WTB/JBC Complex, University of Dundee, DD1 5EH.

Applicants will only be contacted if invited for interview.

**Closing date: 15 January 2010**

*The University of Dundee is committed to equal opportunities and welcomes applications from all sections of the community.*

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