

**THE POST**

**College/Service:** University of Exeter Medical School

**Post:** Genomics Specialist

**Reference No:** P48177

**Grade:** F

**Reporting To:** Jonathan Mill (UEMS) and Konrad Paszkiewicz (CLES)

The above full-time five-year post is available from 1<sup>st</sup> April 2015 in the University of Exeter Medical School.

**Job Description**

The University of Exeter Medical School was recently funded by the MRC Clinical Research Infrastructure Initiative (<http://www.mrc.ac.uk/research/initiatives/clinical-research-capabilities-and-technologies-initiative/>) to invest in a Pacific Biosciences single molecule real time (SMRT) sequencer to complement our existing world-class second-generation genomics infrastructure. Our aim is to advance genomics research into metabolic, neurological and other medical conditions by defining functional genetic and epigenetic variation in non-coding regions of the human genome. We are seeking to recruit an experienced genomics expert to support novel protocol development and experimental design for short and long read DNA sequencing technologies as part of the wider University of Exeter Sequencing Service.

**Main purpose of the job:**

The successful applicant will be primarily based in the new Wellcome Wolfson Medical Research Centre on the Royal Devon and Exeter NHS Trust campus. The successful applicant will form part of the University of Exeter sequencing service overseeing the operation of the new SMRT sequencing system and existing second-generation Illumina systems. They will work alongside clinical and academic research groups to facilitate collaborative genomics projects. The successful applicant will have considerable experience of second- and/or third-generation sequencing, a passion for novel protocol development, and at least a working-knowledge of basic bioinformatics pipelines for sequencing quality control and read alignment.

### **Main duties and accountabilities:**

1. Maintenance and daily operation of Pacific Biosciences SMRT and second-generation Illumina sequencing platforms.
2. Protocol development for novel functional genomics applications.
3. Sample and library preparation for both Pacific Biosciences SMRT and Illumina sequencing.
4. Collaborating with researchers across UEMS and the wider University to facilitate genomics research, including advice on experimental design, costing, sample preparation, and data analysis.
5. Initial quality-control and bioinformatics analysis of SMRT sequencing data.
6. Work across multiple University sites (primarily at the RD&E (Wonford) and Streatham campuses)
7. To work with academic groups to identify grant and other income opportunities, contributing to grant applications and tender bids.
8. Ensuring that budgets are tracked and managed appropriately.
9. To cost, in line with University Regulations, consultancy work and complete this work to the required standard, ensuring that intellectual property rights and research outputs are exploited appropriately.
10. To meet new and existing clients to discuss and plan their projects and to recommend, advise and specify the most suitable research, technology and methods to meet their aims and objectives.
11. Manage sequencing laboratory and related areas, including staffing, Health and Safety and sourcing and order approved capital equipment.
12. Provide technical advice on sequencing projects and actively solve any problems that may arise from research and/or experiments.
13. Conduct original research collaboratively with the groups utilising the equipment, leading to peer review publications in journals agreed by the College's Director of Research.
14. Participate in internal and external committees and networks as deemed appropriate by line management.

### **Person Specification**

<b>Competency</b>	<b>Essential</b>	<b>Desirable</b>
Attainments/Qualifications	Degree (or equivalent) in a biological or related discipline.	Postgraduate qualification in genetics or a related biological discipline
Skills, Understanding and Prior Experience	Significant experience of working in a similar post at an equivalent level within	Experience of Pacific Biosciences SMRT sequencing technology (e.g. library

	<p>academia or industry.</p> <p>Experience of genomic laboratory techniques</p> <p>Experience of protocol development and experimental design.</p> <p>Excellent project management skills</p> <p>Proven scientific data collection skills</p> <p>Experience of generating external income</p>	<p>preparation and/or sequencer operation)</p> <p>Experience of Illumina sequencing technology (e.g. library preparation, and/or sequencer operation)</p> <p>Experience of working with raw genomics data including quality-control pipelines.</p> <p>Track record of leading successful protocol development and experimental design</p>
Behavioural Characteristics	Highly collaborative person who is able to work on a variety of projects and interact with a wide variety of research groups.	
Circumstances		

### **Informal Enquiries**

Before submitting an application you may wish to discuss the post further by contacting Jonathan Mill, email [j.mill@exeter.ac.uk](mailto:j.mill@exeter.ac.uk).

### **Additional Information Relating to the Post**

#### **Salary**

Salary will be circa £33,242 per annum subject to knowledge, skills and experience.

An increment will be payable on 1 August each year until the top of the scale is reached (subject to being in post for 6 months and satisfactory performance). The scale will be subject to a cost of living review each year.

#### **Hours of work**

Hours of work will be 36.5 hours per week (full-time) but staff at this level may be required to work additional hours to meet the requirements of the role.

#### **Annual Leave**

The annual leave entitlement for full-time appointments is 41 days per calendar year (pro rata for part-time appointments). For further information see our website <http://www.admin.ex.ac.uk/personnel/leave.shtml>.

#### **Probationary Period**

The appointment will normally be subject to a probationary period of one year.

#### **Right to Work in the United Kingdom**

If you do not have the right to work in the UK, this appointment will be subject to the University successfully obtaining a Certificate of Sponsorship under the UK's Points Based System for migrant workers and to you obtaining Entry Clearance/Leave to Remain.

For further information, see the Home Office website at <http://www.ukba.homeoffice.gov.uk/>. In particular you are encouraged to undertake a self assessment of your eligibility to work in the UK using the link to [www.ukba.homeoffice.gov.uk/pointscalculator](http://www.ukba.homeoffice.gov.uk/pointscalculator).

### **Terms & Conditions**

The Terms and Conditions of Employment can be viewed on line by visiting <http://www.exeter.ac.uk/staff/employment/conditions/terms/>

### **Pensions**

Membership of the Universities' Superannuation Scheme (USS) is automatic provided that you meet the qualifying criteria for membership. The USS is a contracted-out scheme. USS scheme has two sections: Final Salary and Career Revalued Benefits; which section you will be eligible for will depend on any previous membership of USS. An information leaflet concerning the qualification rules for both the sections is enclosed; more detailed information about the USS scheme structure can be found at [www.uss.co.uk](http://www.uss.co.uk). **IF you have been in USS before, you are strongly requested to contact the Pay and Benefits Office as soon as you can so that possible membership of the Final Salary benefits section can be investigated.** The University, as your employer, contributes such sums as will be required to maintain the full benefits of the scheme. You may opt out of the scheme; if you wish to do so, you should contact the Pay and Benefits Manager, Mrs Alison Rose (01392 263088/email [a.j.rose@exeter.ac.uk](mailto:a.j.rose@exeter.ac.uk)) for further information.

Further information about Pension Salary Exchange is available from the Human Resources website [www.admin.exeter.ac.uk/personnel](http://www.admin.exeter.ac.uk/personnel) or from the Pensions Office.

### **Relocation**

You may be able to claim relocation expenses in accordance with the University's Relocation Assistance Scheme. The maximum allowance that you can reclaim under the Relocation Assistance Scheme, if eligible, is 10% of salary.

### **Short-listing Information**

We will acknowledge your application by email. The University of Exeter recognises the time and effort taken to apply for a position and will contact you by email to inform you of results of shortlisting

### **Application Procedure and Interview Information**

The closing date for completed applications is **Sunday 8<sup>th</sup> March 2015**.

### **Data Protection Act (1998)**

The information contained within your application is being requested to enable the University to make employment decisions and meet statutory obligations. Any information provided to the University in this context will be treated confidentially and used only by manager(s), member of the University, Human Resources, Superannuation and Payroll during the course of your employment. Where the application relates to a post which is externally funded this information may be passed onto the relevant funding body.