

# Job Profile

## Job Description

Job Details		
Job Title:	Bioinformatician	
School/Dept/Institute & Centre:	Barts Cancer Institute, Molecular Oncology	
Reports to:	Dr Tatjana Crnogorac-Jurcevic	
Grade:	4	Full Time
Career Family:	Academic & Education (Research)	
Appointment period:	3.5 years (42 months)	
Current Location:	Charterhouse Square	

### Job Context

The Barts Cancer Institute (BCI) is a Cancer Research UK Centre of Excellence whose work aims to transform the lives of those with and at risk of cancer through innovative research in the laboratory, in patients and in populations. BCI is internationally renowned in many areas of cancer research and it combines ground-breaking basic research with the expertise of clinicians and clinician scientists from the Centre for Experimental Cancer Medicine and the Barts NHS Trust to achieve improvements in cancer patient care. BCI is also committed in supporting and developing future cancer researchers through its extensive postgraduate training. It is one of six institutes within The School of Medicine and Dentistry (SMD).

### Job Purpose

- To provide bioinformatics support towards the analysis of UroPanc study data.
- To contribute to the overall scientific endeavour of the Centre, and to take responsibility for areas of several of the current projects, as demand requires.
- To work as a member of the Molecular Oncology Centre/ Pancreatic biomarkers group, being mutually supportive and covering duties as necessary during colleagues' absences and at times of additional pressure, as directed.

### Main Duties & Responsibilities

#### Specific Duties:

- The contribute to maintenance of the UroPanc trial database, keeping accurate written and computerised records and to ensure that these records are stored in a secure place, and to maintain confidentiality of all electronically stored data in line with the provisions of the Data Protection Act.
- To analyse and interpret complex biological data from a variety of platforms.
- To assist in the analysis of high throughput sequencing data. This will include the validation, mapping and statistical interpretation of sequence reads.
- To assemble publicly available and published data sets for the use of data analysis and integration.
- To perform a diverse range of activities and duties, encompassing a number of areas of responsibility, exercising considerable initiative, judgement and adaptability to decide on appropriate courses of action to react to changing circumstances.

### **General Duties:**

- To assist in the transfer, processing, analysis and management of high-throughput sequencing and other types of data obtained from other technological platforms.
- To collect, organise and analyse data.
- To prepare reports and scientific publications to disseminate results from the programme of research.
- To assemble data sets using appropriate software applications for specific projects.
- Preparation of data, figures and text for in-house reports and journal publications.
- Interaction with laboratory staff with regards to routine data collection and specific duties.

### **Other:**

- To ensure that all research is undertaken according to College and Trust protocols.
- To ensure they are fully aware of and comply with the College's/Trust's policies and procedures in relation to confidentiality, health and safety at work, COSHH regulations and all local safety rules regarding fire.
- The post-holder must at all times carry out their responsibilities with due regard to the College's Equal Opportunities policy.

**The above list of responsibilities is not exhaustive and the jobholder may be required to undertake other duties commensurate with the level of the role, as reasonable requested by their line manager.**

**This job description sets out the duties of the post at the time it was drawn up. Such duties may vary from time to time without changing the general character of the duties or level of the responsibility entailed. Such variations are a common occurrence and cannot in themselves justify a reconsideration of the grading of the post.**

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## Person Specification

This table lists the essential and desirable requirements needed in order to perform the job effectively. Candidates will be shortlisted based on the extent to which they meet these requirements.

Requirements		Essential / Desirable
<b>Qualifications</b>	Degree in Mathematics/Statistics/Engineering/Computer Science or a relevant discipline	E
	PhD and/or equivalent professional experience	E
<b>Knowledge, Skills and Experience</b>	Proficient in the analysis of high-throughput datasets	E
	Proficient in Perl and R programming	D
	Proficient in Unix/Linux environment	D
	Proficient in SQL querying and a database platform (preferably MySQL)	D
	Sound knowledge of statistical methods and models	E
	Appropriate publication records	D
	Good Communication and organisational skills	E
	Experience with biological databases	E
	Experience with next-generation sequencing datasets	E
	Analytical skills	E
	Flexible and co-operative	E
	Willingness to learn new skills	E
	Ability to cope under pressure	E
	Able to work independently	E

**E – Essential: Requirements without which the job could not be done.**

**D – Desirable: Requirements that would enable the candidate to perform the job well.**