

**POST:** 5664BR Applications Developer & Curator

**CAREER PATHWAY:** MPSS

**GRADE:** 5

## **ADVERT**

**Applications Developer & Curator**

**Division of Infection and Immunity**

**School of Medicine**

**College of Biomedical and Life Sciences**

We are seeking an individual who has a background in chemistry/biology or a related discipline, and some experience in the design and implementation of software solutions for processing, searching, display and analysis of data. You will develop software for analysis of data from mass spectrometry. You will also write programs, with guidance, to generate *in silico* datasets; develop software pipelines to upload and manage data and will, with support, be involved in curating information from existing sources.

This role will work within a multidisciplinary team that includes scientists and informaticians.

This post is a full time (35 hours per week), is available immediately and is fixed term until 29<sup>th</sup> January 2022.

Salary £26,052- £30,175 per annum (Grade 5)

## **JOB DESCRIPTION**

### **Job Purpose**

Curating data, developing software and supporting the efforts of a team of programmers/curators as part of the international database project, LIPID MAPS (<http://www.lipidmaps.org/>). Contributing to the design and development of new database/software catering for the analysis, integration and visualisation of lipidomic data derived from Mass Spectrometry (MS).

### **Duties and Responsibilities**

#### **Key Duties**

- Contribute to providing professional advice and guidance on the LIPID MAPS resource and database

processes and lipidomics experiments.

- Under supervision of senior colleagues provide specialist knowledge and engage in software development within an international, multi-centre team. The role holder will use judgement and creativity to suggest the most appropriate course of development where appropriate, ensuring that complex and conceptual user-requirements are translated into appropriate software solutions and tools
- Investigate and analysis specific issues within LIPID MAPS, creating recommendation reports, supported by advances within the lipidomics research field
- Ensure that the provision of the LIPID MAPS objectives is delivered to the institution, proactively changing the delivery according to customer requirements
- Collaborate with others in order to make recommendations for developments of established processes and procedures
- Establish working relationships with key contacts, developing appropriate communication links with the University and various project stakeholder bodies.
- Create specific working groups from colleagues across the University to achieve School of Medicine, Division of Infection and Immunity and Systems Immunity University Research Institute objectives
- Supervise specific project teams on an occasional basis to accomplish key objectives
- Develop and deliver training within LIPID MAPS and lipidomics in general
- Undertake a variety of administrative duties to support the department
- Instruct and guide others within the LIPID MAPS team and other employees across the University within the field of lipidomics and in relation to the LIPID MAPS resource

#### **General Duties**

- Ensure that an understanding of the importance of confidentiality is applied when undertaking all duties
- Abide by University policies on Health and Safety and Equality and Diversity
- Perform other duties occasionally which are not included above, but which will be consistent with the

role

## **PERSON SPECIFICATION**

### **Essential Criteria**

#### Qualifications and Education

1. Degree/NVQ 4 or equivalent Professional membership/experience in a computational, physical or life science, or relevant experience

#### Knowledge, Skills and Experience

2. A background in at least one of the following areas:

- mass spectrometry
- analytical chemistry,
- cheminformatics,
- bioinformatics
- an associated discipline

3. Experience of coding in at least one of the following languages as well as knowledge of relational database:

- PHP,
- Perl,
- Python,
- R,
- SQL

4. Ability to set up standard systems and procedures and make improvements as appropriate

#### Customer Service, Communication and Team Working

5. Ability to communicate conceptually detailed and complex information effectively and professionally with a wide range of people

6. Evidence of ability to explore customers' needs and adapt the software/service accordingly

#### Planning, Analysis and Problem solving

7. Evidence of ability to solve expansive problems using initiative and creativity; identifying and

proposing practical solutions and resolving problems with range of potential outcomes

8. Evidence of demonstrable knowledge of key advances within software development

9. Evidence of ability to work unsupervised to deadlines, planning and setting priorities for own work and that of others and monitoring progress.

Other

10. A willingness to undertake further training and development

**Desirable Criteria**

11. An understanding of lipid biology

12. An understanding of basic statistics

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For more information, please see [http://www.bioinformatics.org/forums/forum.php?forum\\_id=12524](http://www.bioinformatics.org/forums/forum.php?forum_id=12524).