1. Job Details

Job title: Bioinformatician

School/Support Department: School of Biological Sciences

Unit (if applicable): Wellcome Centre for Cell Biology

Line manager: Director of the Centre

2. Job Purpose

To provide assistance, advice and training in bioinformatics in support of members of the Wellcome Trust Centre who are pursuing genomic, functional genomic and proteomic research, including micro-array and mass spectrophotometric analyses.

3. Main Responsibilities

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<th>Approx. % of time</th>
<th>Management of the core bioinformatics facility for the WTCCB</th>
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<td>Administering UNIX systems, relational databases and web based services for the use of centre members.</td>
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<td>Identifying and installing applications and databases to address the scientific needs of centre members either on UNIX servers or members own machines.</td>
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|                  | Bioinformatics training to centre group leaders and their lab staff |
|                  | Arranging and/or presenting bioinformatics courses. |
|                  | Contributing with the supervision of student projects in relevant areas. |

|                  | Collaborate in projects with centre staff |
|                  | Providing data analysis and developing of programs/ algorithms required by users for both long and short term projects. |
|                  | Providing advice and assistance with biological database searches, experimental design issues that impact on analysis and interpretation of results. |

|                  | Project Management |
|                  | Providing guidance in the direction of the eDIKT2 laboratory information management systems [LIMS] project through expert advice on the selection of open source resources and advising the recruit hired to complete this project. |
|                  | Managing project roadmaps and bioinformatics deliverables for long-term collaborations. |
4. Planning and Organising
- Collaborating with researchers and helping to guide their work through experimental design and analysis of bioinformatics results.
- Learning new skills in keeping with the diversity of the post
- Developing the profile of bioinformatics within the Centre
- Identifying and implementing new software applications, databases or other relevant technologies as appropriate in the Wellcome Centre.
- Assisting with archiving data generated by researchers.

5. Problem Solving
- Finding ways in which the centre can work more efficiently, either by the introduction of software or the development of in-house pipelines
- Solving technical and data analysis problems
- Ensuring that data and records are of the highest integrity
- Identification and installations of new software applications
- Creating bioinformatics applications tailored to researchers needs

6. Decision Making
- How to set up and implement data management systems
- How to analyse and present bioinformatics information to users
- Prioritisation of work for different projects.
- What advice to give to an researchers, based on the research activity they are undertaking, and what they are trying to achieve, and advising on how to interpret results.

7. Key Contacts/Relationships
- All researchers in the Centre
- Computing and bioinformatics staff in the School
- Researchers in other centres and institutions
- Other bioinformatics core facilities managers worldwide via email list and conference meetings.

8. Knowledge, Skills and Experience Needed for the Job
The following are essential:
- A first degree in Biology or equivalent and a higher degree in bioinformatics or equivalent
- Extensive experience in the development of bioinformatics applications
- Experience of developing algorithms
- Experience of working in a biological laboratory or in a bioinformatics environment
- An in-depth knowledge of sequence analysis techniques especially at the protein (but also at the DNA) level
- Excellent communication skills, in particular the ability to work productively with researchers
- Demonstrable organizational and time management skills
- Unix system, database and web site administration experience
- Demonstrably successful experience of using and maintaining diverse bioinformatics tools, of developing and maintaining databases and of integrating them into an intranet

9. Dimensions
Support provided for all research groups in the Centre. There are presently 14 groups within the centre.
10. Job Context and any other relevant information