

THE UNIVERSITY OF NOTTINGHAM

Recruitment Role Profile Form

Job Title: Data Analytics (Graduate Programme) (Fixed term)

School/Department: School of Computer Science

Job Family and Level: Research and Teaching – Training Level 4A

Contract Status: This post will be offered on a fixed-term contract until 31st July 2018

Hours of Work: Full-time (36.25 hours per week). Open to a job share.

Location: Sutton Bonington Campus

Reporting to: Dr Phil Quinlan, Dr Tom Giles

Purpose of the New Role:

The purpose of this role is to provide a recent graduate with an opportunity to develop into a full data analyst within ADAC. The applicant will be expected to work on a wide-range of internal and external stakeholders. This will include working on projects of national importance and commercially sensitive contracts and will be based within the Bioinformatics team of ADAC.

| Main Responsibilities | |
|-----------------------|--|
| 1. | To plan and conduct research using recognised approaches, methodologies and techniques within the research area and support the development of research objectives and proposals for own and/or collaborative research area. |
| 2. | Analysing and interpreting a range of data using bioinformatics techniques and approaches, particularly related to genome biology and sequence analysis e.g. (sequence mapping, transcriptomics, epigenomics, genome assembly and annotation), to support varying research projects across the University of Nottingham. |
| 3. | To contribute to writing up research findings for publication in leading journals. |
| 4. | To assist with the preparations, proposals and applications to both external and/or internal bodies for funding, contractual or accreditation purposes. |
| 5. | To build internal and/or external contacts to develop knowledge and understanding, forming relationships for future collaborations. |
| 6. | To co-ordinate the operational aspect of research networks, for example, arranging meetings and updating websites etc and contribute to collaborative decision making with colleagues in area of research. |
| 7. | To provide guidance as required to support staff and students, where appropriate in own area of expertise. |
| 8. | To collaborate with academic colleagues on areas of shared interest for example, course development, collaborative or joint research projects. . |
| 9. | To plan and manage own research activity and resolve problems, if required, in meeting own/team research objectives and deadlines in collaboration with others. |
| 10. | To utilise and contribute to organising research resources and facilities, laboratories and workshops as appropriate. |

Knowledge, Skills, Qualifications & Experience

| | Essential | Desirable |
|--------------------------------------|--|---|
| Qualifications/ Education | Minimum BSc (or equivalent) in an appropriate science. | Accreditation in software development and/or database technologies. |
| Skills/Training | <p>Good general knowledge of bioinformatics and/or systems biology.</p> <p>Excellent oral and written communication skills, including the ability to communicate with clarity on complex information.</p> <p>Evidence of sufficient breadth or depth of research methodologies and techniques to work in research area.</p> <p>Developing research skills, with the ability to creatively apply relevant research approaches, models, techniques and methods</p> <p>Ability to contribute to method improvement.</p> <p>Analytical ability to facilitate conceptual thinking, innovation and creativity.</p> <p>Ability to build relationships and collaborate with others, internally and externally.</p> | <p>Web site design</p> <p>Database experience</p> <p>Specialist knowledge of data analysis, including gene expression study by microarray and/or next generation sequencing.</p> |
| Experience | <p>Experience in a variety of bioinformatics tools and softwares</p> <p>Computer language programming experience relevant to computational analysis of biological data.</p> <p>Some practical experience of applying the specialist skills approaches and techniques required for the role.</p> | <p>Experience of programming language. R, Python or Perl</p> <p>Experience of bioinformatics tools for analysis of second generation sequencing data and or expression analysis by microarray.</p> <p>Experience of systems biology and/or comparative genomics.</p> <p>Knowledge of a wide range of data analysis techniques.</p> <p>Track record of collaboration across diverse disciplines.</p> <p>Experience of Linux operating system.</p> <p>Record of multi-disciplinary collaboration.</p> |



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