Job description and selection criteria

<table>
<thead>
<tr>
<th>Job title</th>
<th>Postdoctoral Bioinformatician – Proteomics/Systems Pharmacology</th>
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</thead>
<tbody>
<tr>
<td>Division</td>
<td>Medical Sciences</td>
</tr>
<tr>
<td>Department</td>
<td>NDM Research Building, Nuffield Department of Clinical Medicine (NDM)</td>
</tr>
<tr>
<td>Location</td>
<td>NDM Research Building, Old Road Campus, Headington, Oxford</td>
</tr>
<tr>
<td>Grade and salary</td>
<td>Grade 8: £39,992 - £47,722 p.a</td>
</tr>
<tr>
<td>Hours</td>
<td>Full time</td>
</tr>
<tr>
<td>Contract type</td>
<td>Fixed-term until 31 December 2019 in the first instance</td>
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<tr>
<td>Reporting to</td>
<td>Dr Kilian Huber, Principal Investigator</td>
</tr>
<tr>
<td>Vacancy reference</td>
<td>131481</td>
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</tbody>
</table>

Introduction

About the University of Oxford

Welcome to the University of Oxford. We aim to lead the world in research and education for the benefit of society both in the UK and globally. Oxford’s researchers engage with academic, commercial and cultural partners across the world to stimulate high-quality research and enable innovation through a broad range of social, policy and economic impacts.

We believe our strengths lie both in empowering individuals and teams to address fundamental questions of global significance, while providing all our staff with a welcoming and inclusive workplace that enables everyone to develop and do their best work. Recognising that diversity is our strength, vital for innovation and creativity, we aspire to build a truly diverse community which values and respects every individual’s unique contribution.
Nuffield Department of Medicine

While we have long traditions of scholarship, we are also forward-looking, creative and cutting-edge. Oxford is one of Europe's most entrepreneurial universities. Income from external research contracts in 2014/15 exceeded £522.9m and we rank first in the UK for university spin-outs, with more than 130 companies created to date. We are also recognised as leaders in support for social enterprise.

Join us and you will find a unique, democratic and international community, a great range of staff benefits and access to a vibrant array of cultural activities in the beautiful city of Oxford.

For more information please visit www.ox.ac.uk/about/organisation

Medical Sciences

The Medical Sciences Division is an internationally recognized centre of excellence for biomedical and clinical research and teaching. We are the largest academic division in the University of Oxford

World-leading programmes, housed in state-of-the-art facilities, cover the full range of scientific endeavour from the molecule to the population. With our NHS partners we also foster the highest possible standards in patient care.

For more information please visit: www.medsci.ox.ac.uk

Nuffield Department of Clinical Medicine (NDM)… fostering your career in science

The Nuffield Department of Clinical Medicine (NDM) is one of the largest departments of the University of Oxford and is part of the Medical Sciences Division, with responsibility for a significant part of the teaching of clinical students within the Medical School.

NDM has significant financial turnover and complexity, resulting from its diverse research portfolio, its geographical spread and its close links with NHS funding and strategic teams involved in the development and delivery of increasingly integrated clinical research platforms. For more information please visit: http://www.ndm.ox.ac.uk/home

The Nuffield Department of Clinical Medicine has been presented with a Departmental Athena SWAN Silver award in recognition of the commitment made to promote gender equality through our organisational and cultural practices and our efforts to improve the working environment for both men and women. For more information please see our Departmental Athena SWAN pages: https://www.ndm.ox.ac.uk/working-for-ndm/aboutndmatheneswan/
Structural Genomics Consortium (SGC)

The Structural Genomics Consortium is a public-private partnership with a mandate to place protein structures of relevance to human health into the public domain. The SGC operates across three sites in Oxford, Stockholm and Toronto, and is funded by the Wellcome Trust, a consortium of Canadian and Swedish funding agencies, GlaxoSmithKline, Novartis and Merck.

The SGC in Oxford currently consists of approx. 80 scientists, and provides extensive infrastructure and experience for protein production, small molecule screening, and structure determination. Since 2004, structures of 251 novel human proteins have been deposited and more than 55 primary research papers published. Part of the University of Oxford, the SGC is co-located with one of the largest clinical oncology departments in the UK, allowing collaborations which have already led to successful clinical research programs.

For more information see: http://www.sgc.ox.ac.uk/.

...fostering your career in science.

Job description

Overview of the role

The Chemical Biology group is seeking a highly motivated Postdoctoral Bioinformatician work on the identification of novel drug targets and the elucidation of the mechanism of action of drugs and tool compounds for the treatment of cancer with special emphasis on multiple myeloma. The position is funded by the Structural Genomics Consortium Company, Myeloma UK (MUK) and the Freed Foundation and is available until 31 December 2019. The research programme has a strong emphasis on target identification using AP-MS proteomic approaches in combination with other multi-omics data.

Candidates should have extensive experience in bioinformatic data processing and analysis with practical experience in handling, interpreting and visualising proteomic and genetic data. A basic degree in cell and tumour biology, pharmacology or analytical chemistry/mass spectrometry with experience in disease network analysis is welcome. You will be a self-motivated, enthusiastic and skilled scientist with a strong academic track record. You will work in a multidisciplinary team and therefore require strong communication skills.
Responsibilities/duties

- Design and establish bioinformatic workflows and tools to process, analyse and visualise proteomic data (TMT, SILAC or iTRAQ as well as label-free quantification).
- Analyse the data in context of other internal or publicly available omics data such as protein-protein interaction networks, gene expression data including RNA-seq or disease networks and other functional data (e.g. biological pathways, GO terms, druggability/drug sensitivity) to identify new drug targets and guide design of experimental work.
- Contribute to the establishment of a LIMS to track and analyse proteomic data.
- Instruct and assist laboratory members in analysing their data and designing experiments.
- Provide bioinformatics input into project and funding proposals.
- Contribute to high-impact publications, including taking leadership in more specialised publications on the development of novel bioinformatic tools exploiting in-house data.
- To keep up to date with the relevant scientific literature.
- To work independently and as part of a team to complete research projects and draw conclusions from analysing all available data.
- To demonstrate excellent scientific skills and actively contribute to scientific publications of key results.
- To present data both internally and at scientific meetings to publicise the work of the group.
- To keep complete, accurate and up to date records of all data and results.
- To carry out any other relevant duties as may reasonably be associated with the post and which may be required from time to time.
- To participate in and support the public engagement and widening access activities of the Department and the University. This is anticipated to be not more than 2 days per year.
Nuffield Department of Medicine

All employees will have to ensure that their work in the laboratory is conducted safely at all times and, in particular, that work is undertaken following the appropriate health and safety policies and procedures for the particular area, without compromise to their own safety or that of others who may be affected.

Selection criteria

Essential

- PhD in systems biology/pharmacology or related area with focus on bioinformatics and proteomic data analysis.
- Demonstrable experience in bioinformatic data processing and analysis of proteomic and genomic sequencing data using R including Bioconductor, MaxQuant and other relevant programmes.
- Several years of demonstrable experience in bioinformatic data analysis of (multi-)omics data including gene and protein networks, pathways, gene expression signatures.
- Demonstrable experience in the development of (e.g. web-based) interactive tools enabling bench scientists to mine, analyse, interpret, and visualize the data.
- Demonstrate enthusiasm, motivation, integrity, flexibility and confidence.
- Good communication and interpersonal skills: ability to work both independently and as part of a team, with potential to take on supervisory responsibilities.
- Excellent oral presentation and written communication skills including experience in independently writing scientific reports and manuscripts.
- Knowledge of appropriate Health & Safety procedures, observe local codes of practice and observe and if necessary write COSHH assessments for all procedures used.

Desirable

- Experience in cell and/or tumour biology
- Experience in sequencing data analysis (RNA-seq, ChIP)
- Experience in HTML and website development
- Experience in cheminformatics
- Experience in drug development
Nuffield Department of Medicine

How to apply

Before submitting an application, you may find it helpful to read the ‘Tips on applying for a job at the University of Oxford’ document, at https://www.ox.ac.uk/about/jobs/research/

If you would like to apply, click on the Apply Now button on the ‘Job Details’ page and follow the on-screen instructions to register as a new user or log-in if you have applied previously. Please provide details of two referees and indicate whether we can contact them now.

You will also be asked to upload a CV and a supporting statement. The supporting statement must explain how you meet each of the selection criteria for the post using examples of your skills and experience. This may include experience gained in employment, education, or during career breaks (such as time out to care for dependants).

Your application will be judged solely on the basis of how you demonstrate that you meet the selection criteria stated in the job description.

All applications must be received by midday on the closing date stated in the online advertisement.

Information for priority candidates

A priority candidate is a University employee who is seeking redeployment because they have been advised that they are at risk of redundancy, or on grounds of ill-health/disability. Priority candidates are issued with a redeployment letter by their employing departments.

If you are a priority candidate, please ensure that you attach your redeployment letter to your application (or email it to the contact address on the advert if the application form used for the vacancy does not allow attachments)

Should you experience any difficulties using the online application system, please email recruitment.support@admin.ox.ac.uk. Further help and support is available from www.ox.ac.uk/about_the_university/jobs/support/. To return to the online application at any stage, please go to: www.recruit.ox.ac.uk.

Please note that you will be notified of the progress of your application by automatic emails from our e-recruitment system. Please check your spam/junk mail regularly to ensure that you receive all emails.
Nuffield Department of Medicine

Important information for candidates

Pre-employment screening
Please note that the appointment of the successful candidate will be subject to standard pre-employment screening, as applicable to the post. This will include right-to-work, proof of identity and references. We advise all applicants to read the candidate notes on the University's pre-employment screening procedures, found at: www.ox.ac.uk/about/jobs/preemploymentscreening/.

The University's policy on retirement
The University operates an Employer Justified Retirement Age (EJRA) for all academic posts and some academic-related posts. From 1 October 2017, the University has adopted an EJRA of 30 September before the 69th birthday for all academic and academic-related staff in posts at grade 8 and above. The justification for this is explained at: www.admin.ox.ac.uk/personnel/end/retirement/revisedejra/revaim/.

For existing employees, any employment beyond the retirement age is subject to approval through the procedures: www.admin.ox.ac.uk/personnel/end/retirement/revisedejra/revproc/

Form 1 October 2017, there is no normal or fixed age at which staff in posts at grades 1–7 have to retire. Staff at these grades may elect to retire in accordance with the rules of the applicable pension scheme, as may be amended from time to time.

Equality of Opportunity
Entry into employment with the University and progression within employment will be determined only by personal merit and the application of criteria which are related to the duties of each particular post and the relevant salary structure. In all cases, ability to perform the job will be the primary consideration. No applicant or member of staff shall be discriminated against because of age, disability, gender reassignment, marriage or civil partnership, pregnancy or maternity, race, religion or belief, sex, or sexual orientation.
Nuffield Department of Medicine

Benefits of working at the University

**Training and Development**
A range of training and development opportunities are available at the University. Further details can be found at www.ox.ac.uk/staff/working_at_oxford/training_development/index.html.

**For research staff only: Support for Research Staff**
There is a particularly wide range of support for career development for research staff. Please visit: www.ox.ac.uk/research/support-researchers to find out more.

**Pensions**
The University offers generous occupational pension schemes for eligible staff members. Further details can be found at www.admin.ox.ac.uk/finance/epp/pensions/pensionspolicy/.

**Information for international staff (or those relocating from another part of the UK)**
A wealth of information is available on the University's International Staff website for staff who are relocating to Oxford from abroad, at www.admin.ox.ac.uk/personnel/staffinfo/international/.

**The University of Oxford Newcomers' Club**
The Newcomers' Club is aimed at helping partners of newly-arrived visiting scholars, graduate students and academic members of the University to settle in and to meet people in Oxford.

**Transport schemes**
The University offers a range of travel schemes and public transport travel discounts to staff. Full details are available at www.admin.ox.ac.uk/estates/ourservices/travel/.

**University Club and University Sports Facilities**
The University Club provides social, sporting and hospitality facilities. It incorporates a Club bar, a cafe and sporting facilities, including a gym. See www.club.ox.ac.uk for all further details.

University staff can use the University Sports Centre at discounted rates, and have the chance to join sports clubs. Please visit www.sport.ox.ac.uk/oxford-university-sports-facilities.

**Childcare and Childcare Vouchers**
The University offers quality childcare provision services at affordable prices to its employees. For full details about the services offered, please visit www.admin.ox.ac.uk/childcare/. NB: Due to the high demand for the University’s nursery places there is a long waiting list.
Nuffield Department of Medicine

The University also offers nursery fee payment schemes to eligible staff as an opportunity to save tax and national insurance on childcare costs. Please visit www.admin.ox.ac.uk/childcare.

Disabled staff

The University is committed to supporting members of staff with a disability or long-term health condition and has a dedicated Staff Disability Advisor. Please visit www.admin.ox.ac.uk/eop/disab/staff for further details.

BUPA - Eduhealth

Bupa Eduhealth Essentials private medical insurance offers special rates for University of Oxford staff and their families www.eduhealth.co.uk/mini-site/.

All other benefits

For other benefits, such as free entry to colleges, the Botanic Gardens and staff discounts offered by third party companies, please see www.admin.ox.ac.uk/personnel/staffinfo/benefits/.