Job description and selection criteria

<table>
<thead>
<tr>
<th>Job title</th>
<th>Team Leader in Global Malaria Epidemiology</th>
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<tbody>
<tr>
<td>Division</td>
<td>Medical Sciences</td>
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<tr>
<td>Department</td>
<td>Nuffield Department of Medicine</td>
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<tr>
<td>Location</td>
<td>Big Data Institute, Old Road Campus</td>
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<tr>
<td>Grade and salary</td>
<td>Grade 9: £45,562 - £52,793 per annum with a discretionary range to £57,674</td>
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<tr>
<td>Hours</td>
<td>Full time</td>
</tr>
<tr>
<td>Contract type</td>
<td>Fixed-term until the end of April 2020</td>
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<tr>
<td>Reporting to</td>
<td>PI – Associate Professor Peter Gething</td>
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<tr>
<td>Vacancy reference</td>
<td>129789</td>
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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.
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: www.ndm.ox.ac.uk/working-for-ndm/aboutndmatheneswan/

The Oxford Big Data Institute

The Oxford Big Data Institute (https://www.bdi.ox.ac.uk/) is an interdisciplinary research centre focussing on the analysis of large, complex, heterogeneous data sets for research into the causes and consequences, prevention, and treatment of disease. To this end, BDI researchers develop, evaluate and deploy efficient methods for acquiring and analysing information for large clinical research studies. These approaches will be invaluable in
identifying the associations between lifestyle exposures, genetic variants, infections and health outcomes around the globe.

Research is conducted in 4 general themes: genomics, population health, infectious disease surveillance, and methodology (including informatics, statistics, and engineering). Big Data methods could transform the scale (breadth, depth and duration) and efficiency (data accumulation, storage, processing and dissemination) of large-scale clinical research. The work of the BDI requires people and projects that span traditional departmental boundaries and scientific disciplines, supported by technical resources to handle the vast quantities of data they generate.

The Malaria Atlas Project

The Malaria Atlas Project (MAP, http://www.map.ox.ac.uk), led by Professor Peter Gething, is based in the Oxford Big Data Institute.

The Malaria Atlas Project (MAP) brings together researchers based around the world with expertise in a wide range of disciplines from public health to mathematics, geography, and epidemiology. We work together to generate new and innovative methods of mapping malaria risk. Ultimately our goal is to produce a comprehensive range of maps and estimates that will support effective planning of malaria control at national and international scales.

Currently, the MAP group is engaged on two flagship programmes: the creation of global prediction maps of malaria prevalence and incidence in collaboration with the Institute of Health Metrics and Evaluation, Washington (led by Professor Peter Gething), and the creation of a suite of databases and online applications to enable effective curation of malirometric data (led by the MAP Programme Manage, Mike Thorn).

The MAP group is currently based in the Peter Medawar Building for Pathogen Research on South Parks Road, Oxford. In early 2017, the group will relocate to purpose built offices in the Headingon Old Road Campus.
Overview of the role

Reporting to the director of the Malaria Atlas Project (MAP), the post is a senior position responsible for leading the research and managing the research team for one of the two major strands of research within the group: global malaria epidemiology. This will entail scientific and intellectual leadership, managing research budgets, and the line-management of post-doctoral scientists and research assistants.

The post-holder will be a recognised authority in the field of geospatial modelling of disease, with a proven track record of relevant publications and conference papers. The post-holder will be responsible for ensuring MAP is able to fulfil all deliverables in its subcontract with University of Washington under the Geospatial Analyses of Pneumonia, Diarrhea, Malaria, HIV/AIDS, Tuberculosis and selected Eradicable Neglected Tropical Diseases project funded by the Bill and Melinda Gates Foundation. This includes:

- Geospatial estimates of *Plasmodium falciparum* infection prevalence and clinical incidence for all endemic countries; monthly 1980 - 2016; 5 x 5km resolution; GBD age categories)
- Implementation of GBD process to derive national-level estimates of all required GBD metrics for malaria, including an exploration of new approaches for the integration of geospatial estimates with current GBD national-level architecture.
- Exploration of approaches for refining understanding of mortality due to *Plasmodium falciparum* and how these may be integrated in GBD process.

The post-holder will be responsible for tracking and managing the budgets relating to the above project, fulfilling the MAP group’s obligations to provide reports to funding sources and appropriate sections of the University of Oxford as required.

This post-holder is responsible for the line-management of post-doctoral scientists and research assistants within the group, setting clear work objectives and developing productive working relations. The post-holder contributes to the development of their staff through induction, appraisal, and coaching. The post-holder will be responsible for the recruitment of new academic members of the group as circumstances arise.

The post-holder is responsible for ensuring there is good communication between the academic staff within MAP and the ROAD-MAP team to ensure the latter are aware of data requirements and appropriate technical support.

The post-holder will have a clear understanding of their obligations and of the working practices and regulations of the University of Oxford as far as they relate to the management of staff and research budgets.

Responsibilities/duties

- Lead the programme of research for the project Geospatial Analyses of Pneumonia, Diarrhea, Malaria, HIV/AIDS, Tuberculosis and selected Eradicable Neglected Tropical Diseases, and related research efforts in MAP around global malaria epidemiology. This will involve both planning and directly conducting original research as well as leading a team of junior scientists.

- Lead liaison with the Institute for Health Metrics and Evaluation around the above project and other partner organizations as appropriate

- Manage and monitor research resources and budgets, reporting to both appropriate teams within the University of Oxford and to funding sources.
• Contribute to establishing the strategic direction of the Malaria Atlas Project, setting standards for the work of the wider group

• Develop ideas for generating research income and promoting the research of the Malaria Atlas Project and write funding applications for specific avenues of independent research

• Regularly write research articles for prestigious journals, book chapters, and reviews. Present papers at conferences, and lead seminars to disseminate research findings

• Promote the research group locally and nationally, disseminate research outcomes to advance knowledge in the specialist area; represent the Malaria Atlas Project at external meetings/seminars and liaise with sponsors, stakeholders, national agencies, and professional bodies.

• Direct the work of post-doctoral scientists within the Malaria Atlas Project working on the project Geospatial Analyses of Pneumonia, Diarrhea, Malaria, HIV/AIDS, Tuberculosis and selected Eradicable Neglected Tropical Diseases, setting clear objectives and project plans.

• Direct the work of research assistants, working with the Senior Geospatial and Malariometric Data Analyst within the ROAD-MAP team to coordinate data collecting exercises (the Senior Geospatial and Malariometric Data Analyst will supervise the day-to-day data gathering work of research assistants).

• Attend to the pastoral needs of all staff reporting to you: arranging induction, appraisal, training, coaching, and other support.

• Engage in staff recruitment exercises for the Malaria Atlas Project as required

• Participate in and support public engagement activities on behalf of the Centre. This is anticipated to be around 2 days per year.

**Selection criteria**

**Essential**

• Hold a Ph.D/D.Phil in geospatial modelling or related discipline, with significant post-qualification research experience

• Possess sufficient specialist knowledge in the global scale geospatial modelling of malaria to develop research projects and methodologies

• An established international reputation and publication record in the global scale geospatial modelling of malaria.

• Ability to lead and motivate a team of research staff

• Experience of managing a research budget

• Possess a track record of successful grant applications

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[Logos: Athena SWAN Silver Award, Living Wage Employer, Stonewall Diversity Champion, HR Excellence in Research]
• Excellent communication skills (oral and written)

Desirable

• Experience of providing academic supervision

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
www.ox.ac.uk/about_the_university/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 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.
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 for all academic and academic-related posts (grade 6 and above), for which the retirement date is the 30 September immediately preceding the 68th birthday. 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/

There is no normal or fixed age at which support staff in posts at grades 1–5 have to retire. Support staff may retire once they reach the minimum pension age stipulated in the Rules of the pension scheme to which they belong.

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.
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](http://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](http://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/](http://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/](http://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/](http://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](http://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](http://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/](http://www.admin.ox.ac.uk/childcare/). **NB: Due to the high demand for the University’s nursery places there is a long waiting list.**

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](http://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](http://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/](http://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/.