The Oxford Protein Informatics group (OPIG - http://opig.stats.ox.ac.uk/) has developed a large number of world leading computational tools which have proved to be of high interest to several pharmaceutical companies. These tools are open source and freely available to all users, academic and commercial. This open strategy has meant that the user base for the tools is broad within both academia and industry. Several of these tools have been taken in-house by pharmaceutical companies. This role supports these companies with deployment, maintenance, future developments and integration of the OPIG suite with their own in-house systems and requirements. This exciting position is unique within the University and will provide an unrivalled and privileged opportunity to interact directly with a highly productive academic group and many pharmaceutical companies. The project is pioneering an academic business model of fully open software while simultaneously sustaining a long-term funding stream.

Currently the most important are OPIG’s immunoinformatics tools including SAbDab and SAbPred (http://opig.stats.ox.ac.uk/webapps/sabdab-sabpred/Welcome.php). The post holder is responsible for expanding the external impact of these platforms as well as developing and implementing future strategy for this novel approach to software sustainability. The post holder will also be expected to carry out research and tools development in one of the areas within OPIG.

Responsibilities

- Work closely with contacts from industrial partners in providing support to the implementation, maintenance and integration of the Oxford Protein Informatics Group’s antibody software tools within external organisations. This will include the need to travel to the organisations’ locations, as well as flexibility to log in remotely and work with different time zones.
• Ensure successful identification, planning and implementation of projects to deploy, maintain, develop and integrate the software with the in-house systems and their requirements. Understand the needs and requirements of industry and use this knowledge base in developing new functionalities within the software platforms in collaboration with the Oxford Protein Informatics Group that will be of interest to industry.

• Maintain and update the code-base of existing antibody software platforms as open source using best-practice approaches.

• Carry out research and develop novel methodologies in at least one of the areas of research in the Oxford Protein Informatics Group.

• Contribute to the production of scientific reports and publications for high-profile journals, including taking leadership in more specialised publications about OPIG antibody software.

• Contribute ideas for new research projects.

• Act as a source of information and advice to other members of the research group, including other postdocs, research assistants, doctoral and project students.

• Manage contract agreements with industry in conjunction with OUI and Research Services.

• Provide regular reports to the Principal Investigator on the status of current and future interactions with industry.

• Carry out some related teaching and administration that takes into account career aspirations and development aims.

Selection criteria

Essential

• Close to completion or holds a relevant PhD/DPhil. Relevant areas of research include computational chemistry, structural biology/bioinformatics, statistics, machine learning, computer science or mathematics.

• A strong publication record in and familiarity with the existing literature and research in computational chemistry or structural biology/bioinformatics.

• A strong motivation to work with and evangelise software tools related to biomedical research.

• Significant experience with coding in a wide variety of languages and platforms, Python in particular.

• Prior experience of collaboratively developing software tools in the areas of computational chemistry, structural biology/bioinformatics, statistics or machine learning.

• Ability to work independently and strategically in an enthusiastic manner to maximise the impact of pre-existing software platforms and tools.
• Ability to work collaboratively with academic groups, scientists and technical staff at all levels both across the University and with partner pharmaceutical organisations to ensure the sustainability of the software platforms and tools.

• A strong record of communicating results effectively, both in person and on paper.

Desirable

• A successful record of working with academic and industry scientists as part of a software development project

• Experience with complex IT infrastructure including databases, multi-machine deployment, and remote login.

• Experience of web languages for example flask (Python), javascript, html and/or php

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 2015/16 exceeded £537.4m 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](http://www.ox.ac.uk/about/organisation)

The Department of Statistics

The Department of Statistics at Oxford carries out world-leading research in computational statistics, machine learning, statistical and population genetics, bioinformatics, core theoretical statistics, and probability. As part of the Oxford Mathematical Sciences submission, the Department was ranked first in the UK in the 2014 REF exercise; this included having the highest proportion and highest volume of research judged to be world-leading or internationally excellent.

This is an exciting time for the Department, which relocated to new premises on St Giles’ in the heart of the University of Oxford in 2015. Our newly-renovated building provides state-of-the-art
teaching facilities and modern space to facilitate collaboration and integration, creating a highly visible centre for Statistics in Oxford.

The Department’s research grant portfolio is currently over £8.3m. Industrial partners from Pharma, Finance and the Information sector all also support research in the Department.

The Department’s research excellence has been recognised both collectively through success in REF 2014 and individually. Awards include Fellowships of the Royal Society to Professors Christl Donnelly, Peter Donnelly, Alison Etheridge, and Gilean McVean, FMedSci to Professors Christl Donnelly, Peter Donnelly, and Gilean McVean and the Weldon Memorial Prize to Professors Peter Donnelly and Gilean McVean, the Guy Medal in Bronze to Professor Chris Holmes, the Francis Crick Prize Lecture, and the Genetics Society Balfour Prize to Professor Simon Myers. Professor Gesine Reinert has been elected an Institute of Mathematical Statistics Fellow, and Professor Etheridge was awarded an OBE in the 2017 birthday honours for services to science, in addition to being President of the Institute of Mathematical Statistics 2017–2018. Professor Christl Donnelly was awarded a CBE in the 2018 New Year's honours for services to epidemiology and the control of infectious diseases.

The Department recently launched Oxford University Statistical Consulting, which provides comprehensive statistical consultancy services to both internal departments and external businesses. It operates across a wide range of sectors and offers experience in all aspects of data-based research, allowing businesses and academics to access our world-leading statistical research in computational statistics, statistical methodology, applied probability, bioinformatics and mathematical genetics.

The Department of Statistics offers an undergraduate degree (BA or MMath) in Mathematics and Statistics and an MSc in Mathematical Science (OMMS), both joint with the Mathematical Institute, and an MSc in Statistical Science, as well as a lively and stimulating environment for postgraduate researchers (DPhil or MSc by Research). The Department leads two Centres for Doctoral Training (CDTs): the EPSRC/MRC CDT in Systems Approaches to Biomedical Science and the EPSRC/MRC CDT in Next Generation Statistical Science, a joint programme in Statistics with the University of Warwick. The Department is also part of the National Academy for PhD Training in Statistics, which provides graduate training in fundamental areas of Statistics and Applied Probability. Our students go on to work in a wide range of occupational sectors throughout the world, including higher education.

The Department leads and participates in many interdisciplinary research centres, including the Big Data Institute, part of the Li Ka Shing Centre for Health Information and Discovery, where Professor McVean is Director, and the Wellcome Trust Centre for Human Genetics, where Professor Myers is a Researcher. We are a founding partner in the Alan Turing Institute (ATI), the UK’s national data science centre, which brings together world-leading expertise in the emerging field of data science. Professor Holmes has recently been appointed the Health Lead at the ATI and six other members of the Department currently hold Turing Fellowships.

The Department continues to grow and is now flourishing in its new home under the leadership of Professor Charlotte Deane, whose own research in structural bioinformatics links the Department to many pharmaceutical and other biotech partners.

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

The Department of Statistics holds a bronze Athena Swan award to recognise advancement of gender equality: representation, progression and success for all.
The Mathematical, Physical, and Life Sciences Division

The Mathematical, Physical, and Life Sciences (MPLS) Division is one of the four academic divisions of the University. Oxford is widely recognised as one of the world's leading science universities. The disciplines within the MPLS Division regularly appear at the highest levels in world rankings and have been evaluated as conducting world-leading and internationally excellent research in UK research assessments, and Mathematical, physical and life sciences research at Oxford is the best in the country according to the 2014 Research Excellence Framework (REF) assessment exercise carried out by HEFCE.

The MPLS Division is home to the non-medical sciences at Oxford and its 10 departments and 3 interdisciplinary units span the full spectrum of the mathematical, computational, physical, engineering and life sciences, and undertake both fundamental research and cutting-edge applied work. Our research tackles major societal and technological challenges – whether developing new energy solutions or improved cancer treatments, understanding climate change processes, or helping to preserve biodiversity, and is increasingly focused on key interdisciplinary issues. We collaborate closely with colleagues in Oxford across the medical sciences, social sciences and humanities, and with other universities, research organisations and industrial partners across the globe in pursuit of innovative research geared to address critical and fundamental scientific questions.

MPLS is proud to be the home of some of the most creative and innovative scientific thinkers and leaders working in academe. Our senior researchers have been awarded some of the most significant scientific honours (including Nobel prizes and prestigious titles such as FRS and FR.Eng) and we have a strong tradition of attracting and nurturing the very best early career researchers who regularly secure prestigious fellowships. The Division is also the proud holder of ten Athena Swan Awards (6 Silver and 4 Bronze) illustrating our commitment to ensure good practice and to encourage women in science at all levels in the division.

We have around 6,000 full and part-time students (including approximately 1900 graduate students) and play a major role in training the next generation of leading scientists. Oxford's international reputation for excellence in teaching is reflected in its position at the top of the major league tables and subject assessments. MPLS academics educate students of high academic merit and potential from all over the world. Through a mixture of lectures, practical work and the distinctive college tutorial system, students develop their ability to solve major mathematical, scientific and engineering problems.

MPLS is dedicated to bringing the wonder and potential of science to the attention of audiences far beyond the world of academia. We have a strong commitment to supporting public engagement in science through initiatives including the Oxford Sparks portal (http://www.oxfordsparks.net/) and a large variety of outreach activities; these are crucial activities given so many societal and technological issues demand an understanding of the science that underpins them. We also endeavour to bring the potential of our scientific efforts forward for practical and beneficial application to the real world and our desire is to link our best scientific minds with industry and public policy makers.

For more information about the MPLS division, please visit: http://www.mpls.ox.ac.uk/.

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. Applicants should ask their referees to send their letters of reference directly to the HR Administrator by email to **jobs@stats.ox.ac.uk** by the **closing date** quoting the vacancy reference **138970**. Referees should preferably not be from the same institution, and one should be the applicant’s current, or most recent, supervisor.

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.

Please upload all documents as **PDF files** with your name and the document type in the filename.

All applications must be received by **midday** on the closing date stated in the online advertisement. Interviews will be held on **10 May 2019**.

### 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/](http://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](http://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/](http://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/acrelretire8+.

For existing employees, any employment beyond the retirement age is subject to approval through the procedures: www.admin.ox.ac.uk/personnel/end/retirement/acrelretire8+.

From 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.
### Benefits of working at the University

#### University Club and sports facilities

The University Club provides social, sporting and hospitality facilities. It incorporates a bar, café and sporting facilities, including a gym. Staff can also use the University Sports Centre on Iffley Road at discounted rates, including a fitness centre, powerlifting room, and swimming pool. See: [www.club.ox.ac.uk](http://www.club.ox.ac.uk) and [www.sport.ox.ac.uk/oxford-university-sports-facilities](http://www.sport.ox.ac.uk/oxford-university-sports-facilities).

#### Information for international staff (or those relocating from another part of the UK)

If you are relocating to Oxfordshire from overseas, or elsewhere in the UK, the University's International Staff website includes practical information related to moving to and settling in Oxford such as advice on immigration, relocation, accommodation, or registering with a doctor. See: [www.internationalstaffwelcome.admin.ox.ac.uk/](http://www.internationalstaffwelcome.admin.ox.ac.uk/)

#### The University of Oxford Newcomers' Club

The University of Oxford Newcomers' Club is an organisation run by volunteers that aims to assist the partners of new staff to settle into Oxford and to provide them with an opportunity to meet people in the area. See [www.newcomers.ox.ac.uk/](http://www.newcomers.ox.ac.uk/)

#### Childcare

The University has excellent childcare services with five University nurseries, as well as University-supported places at many other private nurseries. For full details including how to apply and the costs, see [www.admin.ox.ac.uk/childcare](http://www.admin.ox.ac.uk/childcare).

#### Family-friendly benefits

The University subscribes to My Family Care ([www.admin.ox.ac.uk/personnel/staffinfo/benefits/family/mfc/](http://www.admin.ox.ac.uk/personnel/staffinfo/benefits/family/mfc/)) and staff are eligible to register for emergency back-up childcare and adultcare services, a 'speak to an expert' phone line and a wide range of guides and webinars through a website called the Work + Family space.

#### Disabled staff

We are committed to supporting members of staff with disabilities or long-term health conditions. Please visit [www.admin.ox.ac.uk/eop/disab/staff](http://www.admin.ox.ac.uk/eop/disab/staff) for further details including information about how to make contact, in confidence, with the University’s Staff Disability Advisor.

#### Staff networks

The University has a number of staff networks including the Oxford Research Staff Society, BME staff network, LGBT+ staff network and a disabled staff network. You can find more information at [www.admin.ox.ac.uk/eop/inpractice/networks/](http://www.admin.ox.ac.uk/eop/inpractice/networks/)

#### Other benefits

Staff can enjoy a range of other benefits such as free visitor access to the University's colleges and the Botanic Gardens as well as a range of discounts. See [www.admin.ox.ac.uk/personnel/staffinfo/benefits](http://www.admin.ox.ac.uk/personnel/staffinfo/benefits)