



**DIVISION of
STRUCTURAL
BIOLOGY**



Job title	Postdoctoral Research Scientist in Structural Biology: Antibodies and Glycoproteins
Division	Medical Sciences
Department	Nuffield Department of Medicine
Location	Division of Structural Biology, Building for Genomic Medicine, Roosevelt Drive, Oxford, OX3 7BN
Grade and salary	Research Grade 7: salary in range £38,674 - £43,171 p.a. This is inclusive of a pensionable Oxford University Weighting of £1,500 per year.
Hours	Full time
Contract type	Fixed-term contract until 31 January 2028 Funding is provided by the CEPI
Reporting to	Professor Thomas Bowden, Principal Investigator
Vacancy reference	177857

Additional information	This role meets the eligibility requirements for a Skilled Worker Certificate of Sponsorship or may be eligible for Global Talent Visa under UK Visas and Immigration legislation.
About us	<ul style="list-style-type: none"> University of Oxford - www.ox.ac.uk/about/organisation Nuffield Department of Medicine (NDM) - https://www.ndm.ox.ac.uk Unit - www.strubi.ox.ac.uk
What we offer	https://hr.admin.ox.ac.uk/staff-benefits <ul style="list-style-type: none"> An excellent contributory pension scheme 38 days annual leave A pensionable Oxford University Weighting allowance of £1,500 per annum (pro rata) A comprehensive range of childcare services Family leave schemes Cycle loan scheme Discounted bus travel and Season Ticket travel loans Membership to a variety of social and sports clubs A welcoming and diverse community



**Athena
SWAN**
Silver Award



The role

Professor Bowden's group in STRUBI focuses on the structure, function, and immune targeting of viral glycoproteins, and numbers some 6-10 scientists. The laboratory is at the cutting edge of developments in production of samples for structural biology using mammalian and insect cell-based expression systems. Research projects are typically highly interdisciplinary, aiming to integrate in vitro biophysical measurements, high resolution X-ray crystallographic analyses, electron cryo microscopy (cryoEM), and cell based studies (functional assays, advanced light microscopy and cryoET). When appropriate, additional functional studies are undertaken via a well-established network of national and international collaborations. Recent publications from the group exemplifying this approach include Stass et al Nature Microbiol. 2023, Chapman et al Nature Commun. 2023, Florova et al PNAS 2023, Ng et al Host Cell & Microbe 2022, Stelfox & Bowden et al PNAS 2019.

We currently have the opportunity for a highly-motivated Postdoctoral Research Scientist to join the group to work in the area of integrated X-ray and EM-based studies of viral glycoprotein-antibody interactions. You will join a very motivated international and interdisciplinary group of scientists.

Responsibilities

You will:

- Manage your own academic research activities. This involves small scale project management to co-ordinate multiple aspects of work and meet deadlines.
- Adapt existing and develop new scientific techniques and experimental protocols.
- Test hypotheses and analyse scientific data from a variety of sources, reviewing and refining working hypotheses as appropriate.
- Contribute ideas for new research projects.
- Contribute to the presentation of scientific results through journal articles, posters and oral presentations at national/international conferences.
- Use specialist scientific equipment in a laboratory environment.
- Act as a source of information and advice to other members of the group on scientific protocols and experimental techniques.
- Represent the research group at external meetings/seminars, either with other members of the group or alone.
- Carry out collaborative projects with colleagues in partner institutions, and within the Jones research group.
- Comply with due regard to the University's Equal Opportunities and Data Protection policies.
- 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.
- Undertake mandatory training as required by the University, Division and Department. The specific list of training courses may change from time-to-time, in response to both legal and internal University requirements.



Selection criteria

Essential

- Hold a PhD/DPhil (or close to completion) in a relevant subject (e.g. Structural Biology, Biophysics, Biochemistry, Virology).
- Experience in structural biology research.
- Research experience in production and purification of protein samples for structure/function studies using mammalian and insect cell-based expression systems.
- Research experience in X-ray crystallography and/or cryoEM/cryoET, preferably of glycoproteins and membrane proteins.
- Research experience in biophysical and cell-based assays.
- Documented evidence of work at the level expected of first author publication in a leading refereed journal.
- Ability to work independently.
- Ability to manage the day-to-day running of a research project including assisting the work of junior researchers.
- Good communication skills, including the ability to present work at international symposia and to non-specialist audiences.
- Ability to work as part of a team.

Pre-employment screening

Standard checks

If you are offered the post, the offer will be subject to standard pre-employment checks. You will be asked to provide: proof of your right-to-work in the UK; proof of your identity; and (if we haven't done so already) we will contact the referees you have nominated. You will also be asked to complete a health declaration so that you can tell us about any health conditions or disabilities for which you may need us to make appropriate adjustments.

Please read the candidate notes on the University's pre-employment screening procedures at: <https://www.jobs.ox.ac.uk/pre-employment-checks>

Hazard-specific / Safety-critical duties

This job includes hazards or safety-critical activities. If you are offered the post, you will be asked to complete a health questionnaire which will be assessed by our Occupational Health Service, and the offer of employment will be subject to a successful outcome of this assessment.

The hazards or safety-critical duties involved are as follows:

- Work in hot or cold environments
- Work with any substance which has any of the following pictograms on their MSDS:



How to apply

Applications are made through our e-recruitment system and you will find all the information you need about how to apply on our Jobs website <https://www.jobs.ox.ac.uk/how-to-apply>.

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.

As part of your application you will be asked to provide details of two referees and indicate whether we can contact them now. You will 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. Please note using a long file name may prevent you from uploading your documents.

- http://www.ox.ac.uk/about_the_university/jobs/research/

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

If you currently work for the University please note that:

- As part of the referencing process, we will contact your current department to confirm basic employment details including reason for leaving.
- Although employees may hold multiple part-time posts, they may not hold more than the equivalent of a full time post. If you are offered this post, and accepting it would take you over the equivalent of full-time hours, you will be expected to resign from, or reduce hours in, your other posts(s) before starting work in the new post.

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 department(s).

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).

If you need help

Application FAQs, including technical troubleshooting advice is available at: <https://staff.web.ox.ac.uk/recruitment-support-faqs>. Non-technical questions about this job should be addressed to the recruiting department directly recruitment@ndm.ox.ac.uk

To return to the online application at any stage, please go to: www.recruit.ox.ac.uk.

Please note that you will receive an automated email from our online recruitment portal to confirm receipt of your application. **Please check your spam/junk mail** if you do not receive this email. Important information for candidates

Data Privacy



Please note that any personal data submitted to the University as part of the job application process will be processed in accordance with the GDPR and related UK data protection legislation. For further information, please see the University's Privacy Notice for Job Applicants at: <https://compliance.admin.ox.ac.uk/job-applicant-privacy-policy>. The University's Policy on Data Protection is available at: <https://compliance.admin.ox.ac.uk/data-protection-policy>.

The University's policy on retirement

The University operates an Employer Justified Retirement Age (EJRA) for very senior research posts at **grade RSIV/D35 and clinical equivalents E62 and E82**, which with effect from 1 October 2023 will be 30 September before the 70th birthday. The justification for this is explained at: <https://hr.admin.ox.ac.uk/the-ejra>.

For **existing** employees on these grades, any employment beyond the retirement age is subject to approval through the procedures: <https://hr.admin.ox.ac.uk/the-ejra>.

There is no normal or fixed age at which staff in posts at other grades 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.