

Job description

Post	Laboratory & Research Technician
Department	Biology
Division	Mathematical, Physical and Life Sciences Division (MPLS)
Location	Biology Offices, South Parks Rd, Oxford, OX1 3RB
Grade and salary	Grade 5: £28,759 - £33,966 per annum
Hours	Full time
Contract type	Fixed-term till 05/02/2026
Reporting to	Paul Jarvis
Application deadline	12 noon (GMT) on Thursday 4 th January
Vacancy reference	169628
Recruitment contacts	HR: recruitment@biology.ox.ac.uk

Research topic	Plant biology – with a focus on the role of post-translational protein modification in chloroplast biogenesis and operation
Principal Investigator / supervisor	Paul Jarvis
Project team	Jarvis Group
Project web site	https://users.ox.ac.uk/~dops0547/
Funding partner	The funds supporting this research project are provided by BBSRC
Recent publications	<p>Watson, S.J., Li, N., Ye, Y., Wu, F., Ling, Q. and Jarvis, R.P. (2021) Crosstalk between the chloroplast protein import and SUMO systems revealed through genetic and molecular investigation in Arabidopsis. eLife 10: e60960.</p> <p>Ling, Q., Sadali, N.M., Soufi, Z., Zhou, Y. Huang, B., Zeng, Y., Rodriguez-Concepcion, M. and Jarvis, R.P. (2021) The chloroplast-</p>

	<p>associated protein degradation pathway controls chloroplast development and fruit ripening in tomato. <i>Nat. Plants</i> 7: 655-666.</p> <p>Ling, Q., Broad, W., Trösch, R., Töpel, M., Demiral Sert, T., Lymperopoulos, P., Baldwin, A. and Jarvis, R.P. (2019) Ubiquitin-dependent chloroplast-associated protein degradation in plants. <i>Science</i> 363: eaav4467.</p>
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The role

Research in the Jarvis laboratory is focused on chloroplasts – the organelles in plants responsible for photosynthesis. Our research seeks to uncover the molecular mechanisms responsible for the biogenesis and operation of plant chloroplasts, with a particular focus on protein translocation and degradation and the role of post-translational protein modification. The current vacancy is for a research technician with experience in molecular biology and plant biology, to further develop our research on chloroplast biology. The post is full-time and is funded by the BBSRC.

Responsibilities

- Undertake research work as directed by the supervisor. The work will involve various molecular biology techniques (including preparation of nucleic acid or protein samples from plants or bacterial cultures, polymerase chain reaction, molecular cloning, agarose gel electrophoresis, SDS-PAGE, and immunoblotting), and the genetic and physiological analysis of plants, particularly *Arabidopsis thaliana* (including preparation of media, seed sterilisation, tissue culture, phenotype analyses, cross-pollination, and seed harvesting).
- Provide technical support and assistance in relation to the experimental research activities of postdocs and students in the laboratory, as directed by the supervisor.
- Assume responsibility for the maintenance and organisation of important laboratory stocks (antibodies, glycerol stocks, primers, seeds), as well as the corresponding databases.
- Contribute to: monitoring levels of important laboratory chemicals, ensuring timely acquisition of replacement supplies; monitoring laboratory equipment to ensure that it is well maintained and in full working order; preparing and maintaining important stock solutions for the laboratory.
- Oversee the growth and maintenance of plants within controlled environments.
- Maintain accurate records of research work, document experimental data, and participate in the interpretation and presentation of the research results using appropriate software.
- Maintain good laboratory practice at all times.
- Participate fully in group meetings by presenting and discussing own data, and by addressing organizational issues affecting the research laboratory.

- Play a role in the efficient functioning of the laboratory by assuming a share of group responsibilities; along with other members of the laboratory, carry out routine biological practices, e.g., sterilisation, autoclaving/washing glassware and apparatus, media preparation, re-stocking, etc.
- Embed the principles of mutual respect, equality, diversity, inclusivity and sustainability in all aspects of your work; undertake training as and when asked to do so.

Selection criteria

Essential selection criteria

- Experience in molecular biology techniques.
- Experience of working in a biological research laboratory with minimal supervision using own initiative.
- Previous experience of managing laboratory stocks and supplies.
- Ability to work co-operatively as part of a team and to learn new methods and skills.
- Experience in accurate data record keeping and analysis, including use of computers and graphics software to assist in interpretation and presentation of the results.
- Willingness to carry out routine biological practices, e.g., sterilisation, autoclaving/washing glassware, etc.
- Good English communication skills, both written and oral.
- Appropriate higher education qualification in a relevant subject.

Desirable selection criteria

- Previous experience of plant husbandry.
- Previous experience of research on chloroplasts.
- Previous experience of working with *Arabidopsis thaliana* or other model organisms.

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>

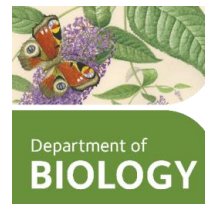
Hazard-specific / Safety-critical duties

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:

- Lone Working
- Work in hot or cold environments
- Working with Ionising Radiation
- Regular manual handling
- Working with category 3b or 4 lasers (laser safety class)
- Work with allergens, E.g. laboratory animals, pollen, dust, fish or insects etc.
- Work with any substance which has any of the following pictograms on their MSDS:





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 and we rank first in the UK for university spin-outs, and in recent years we have spun out 15-20 new companies every year. 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.

The Department of Biology

You will be joining us at an exciting time: just as the Departments of Zoology and Plant Sciences merge to form a new Department of Biology, and two to three years before we move into a major new building dedicated to the science of life and mind.

The Departments of Plant Sciences and Zoology are recognised internationally for our research in a wide range of fields spanning all levels from molecules to ecosystems, and tackling fundamental problems in evolutionary ecology, disease biology, evolutionary mechanisms, conservation biology, biodiversity, evolutionary developmental biology, plant biology and animal behaviour. Over time, the research interests of the department have diversified so that much of the research focusses on bacteria, viruses, animal-plant interactions and global biodiversity as well as more traditional models. Research is conducted in all spheres from laboratory and *in silico* analysis to theoretical and field-based research; at all times we seek to reinforce the connections between research and graduate and undergraduate education. The Departments jointly teach the four-year undergraduate degree course in Biology, with fourth-year students doing a Masters-level research project.

External research income to the Departments is derived from over 50 different funding agencies, with the principal current funders being the European Research Council, the Royal Society, the Wellcome Trust, BBSRC and NERC. The Departments have a significant track record in enabling the broader societal impact of research, including the provision of policy to government at the highest level, as well as supporting the commercialisation of research through spin-out companies and licensing arrangements that have generated hundreds of millions' worth of innovation.



The main Departments are located in the University's Science Area, and will move into a new £200m building in 2024 that will include extensive laboratory provision with controlled environment rooms, glasshouses and an imaging suite. We will share this building with the Department of Experimental Psychology, opening new avenues for collaboration and exploration of the life and mind sciences. The Departments also have extensive facilities the John Krebs Field Station at Wytham (with Wytham Woods nearby).

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

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 FREng) 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 (5 Silver and 5 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 (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 please visit: www.mpls.ox.ac.uk



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>.

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

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)

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

All applications must be received by **midday** UK time 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 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).

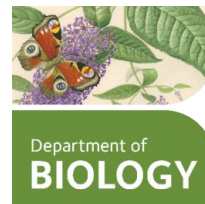
If you need help

Help and support is available from: <https://hrsystems.admin.ox.ac.uk/recruitment-support>

If you require any further assistance please email recruitment.support@admin.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 e-recruitment system 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 all academic posts and some academic-related posts. 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: <https://hr.admin.ox.ac.uk/the-ejra>

For **existing** employees, 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 **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

Employee benefits

University employees enjoy 38 days' paid holiday, generous pension schemes, travel discounts, and a variety of professional development opportunities. Our range of other employee benefits and discounts also includes free entry to the Botanic Gardens and University colleges, and discounts at University museums. See <https://hr.web.ox.ac.uk/staff-benefits>.

University Club and sports facilities

Membership of the University Club is free for all University staff. The University Club offers social, sporting, and hospitality facilities. 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 and <https://www.sport.ox.ac.uk/home>.

Information for staff new to Oxford

If you are relocating to Oxfordshire from overseas or elsewhere in the UK, the University's Welcome Service website includes practical information about settling in the area, including advice on relocation, accommodation, and local schools. See <https://welcome.ox.ac.uk/>.

There is also a visa loan scheme to cover the costs of UK visa applications for staff and their dependents. See www.admin.ox.ac.uk/personnel/permits/reimburse&loanscheme/.

Family-friendly benefits

With one of the most generous family leave schemes in the Higher Education sector, and a range of flexible working options, Oxford aims to be a family-friendly employer. We also subscribe to My Family Care, a service that provides practical advice and support for employees who have caring responsibilities. The service offers a free telephone advice line, and the ability to book emergency back-up care for children, adult dependents and elderly relatives. See <https://hr.admin.ox.ac.uk/family-friendly-benefits>.

Childcare

The University has excellent childcare services, including 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/.

Disabled staff

We are committed to supporting members of staff with disabilities or long-term health conditions. For further details, including information about how to make contact, in confidence, with the University's Staff Disability Advisor, see <https://edu.admin.ox.ac.uk/disability-support>.

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 <https://edu.admin.ox.ac.uk/networks>.

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 settle into Oxford, and provides them with an opportunity to meet people and make connections in the local area. See www.newcomers.ox.ac.uk.

