



# Job description

Post	Postdoctoral Research Associate
Department	Department of Biology
Division	Mathematical, Physical and Life Sciences Division (MPLS)
Location	The John Krebs Field Station, Wytham, Oxford, OX2 8QJ
Grade and salary	Grade 7.1
Hours	Full time
Contract type	Fixed Term – 1 <sup>st</sup> Jan 2025 to 31 <sup>st</sup> Dec 2026, with possible extension of 6 months
Reporting to	Geraldine Wright
Application deadline	Monday 14 <sup>th</sup> October 12 noon (GMT+1)
Vacancy reference	175523
Recruitment contacts	HR: <u>recruitment@biology.ox.ac.uk</u> or PI: Geraldine Wright
Research topic	Chemical ecology of the pollination of tomatoes by bumblebees

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Principal Investigator / supervisor	Geraldine Wright
Project team	Oxford Bee Lab
Project web site	https://oxfordbeelab.com/
Funding partner	The funds supporting this research project are provided by a BBSRC PACE grant















### The role

The person appointed to this postdoctoral position will work with a team of scientists at Oxford, the University of Greenwich, and Thanet Earth to perform experiments to understand how bumblebees pollinate tomato crops. The candidate will be required to use specialized methods for the collection and analysis of floral volatiles and floral pollen from tomatoes. They will work closely with the industrial partners on location in Kent at Thanet Earth to monitor and study the behaviour of bees in glasshouses. They will also work in the Oxford Bee lab to design experiments to test methods that will improve pollination of tomatoes by bumblebee colonies.

The post will require the person to collect and work with live bees on a daily basis, in the lab and in glasshouses and polytunnels. The postholder will be involved in data acquisition, material preparation, ordering, organizing, cleaning, and planning experiments and will liaise with the industrial partners, lab technicians, and with the PI to organize and execute the experimental program. This person will be required to help undergraduate projects and graduate students as well as working directly with postdoctoral scientists to achieve the goals of the research funding.

# Responsibilities

- Manage own academic research and administrative activities. This involves small scale project
  management, to co-ordinate multiple aspects of work to meet deadlines. This includes
  organizing and keeping records of meetings with the industrial and academic partners for
  dissemination amongst all parties.
- Work with academic partners to design experiments, collect data, process samples and analyze the data for the objectives of the grant including reviewing and refining hypotheses
- Contribute ideas for new research projects, develop new techniques, keep the team abreast of innovations or new literature relevant to the research
- Lead and/or collaborate on the preparation of research publications forthcoming from the work
- Act as a source of information and advice to other members of the group on methodologies or procedures
- Provide ideas for generating new income and assist in the preparation of grant proposals
- Supervise a lab technician and any students involved in the research
- Keep up to date with and advise on matters relating to Good Laboratory Practice (GLP), Health and Safety, COSHH sheets and other regulations relevant to the post.

#### Selection criteria

#### **Essential selection criteria**

- Hold, or be close to completion of, a relevant PhD/DPhil (eg. Biology or Entomology), together with experience.
- Experience of working in a laboratory environment with bees. Specifically performing
  experiments with bees, and particularly domesticated bumblebees, to study their behaviour
  and physiology.



- Knowledge of health and safety regulations in a laboratory environment specifically relating to lab protocols for rearing bumblebees, working with bees in the field, and reagent handling.
- Evidence of written publications in the areas of pollination, bee behaviour, and/or horticulture of glasshouse grown crops.
- Experience with experimental design and analyzing experimental data; data management and archiving
- Experience with video and audio recording and analysis software for the automated collection of behavioural data (such as DeepLabCut), including a competence in software development for the enhancement of tooling
- Strong communication and organizational skills, and attention to detail, organizing self and others, including experience managing industrial partners
- Willing and able to travel to work on site with industrial partners

#### **Desirable selection criteria**

- Experience with GC-MS or LC-MS analysis of floral volatiles or other metabolites from plants
- Experience with glasshouse grown crops
- Flexibility in working hours
- Previous postdoctoral experience in the field of bumblebees and pollination

# **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: <a href="https://www.jobs.ox.ac.uk/pre-employment-checks">https://www.jobs.ox.ac.uk/pre-employment-checks</a>

## **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 a successful outcome of this assessment.

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

- Driving on University business
- Work with allergens, E.g. laboratory animals, pollen, dust, fish or insects etc.
- Travel outside of Europe or North America on University Business



# **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 <a href="https://www.ox.ac.uk/about/organisation">www.ox.ac.uk/about/organisation</a>.

# The Department of Biology

You will be joining the Department of Biology at an exciting time. The Department established from August 2022 as a result of a merger between the Departments of Zoology and Plant Sciences. The Department is preparing to move into the new state-of-the-art Life and Mind Building in 2025.

The Department of Biology is recognised internationally for its research in a wide range of fields spanning all levels from molecules to ecosystems, and tackling global challenges through fundamental bioscience research. Over time, the research interests of the Department has been focused on five primary themes: Behaviour & Biomechanics; Ecology & Conservation; Evolutionary Biology; Microbiology & Infectious Disease; and Molecular Plant Biology. 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 our education offering, at both graduate and undergraduate level. The Department teaches a four-year undergraduate degree MBiol course in Biology, with fourth-year students undertaking a Masters-level research project. It also supports a variety of graduate placements and hosts the University's DPhil in Biology.

External research income to the Department 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 Department has a significant record in integrating broader societal impacts of its 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 of pounds' worth of innovation.



The Department is located in the University's Science Area at two sites and will move into the new £200m Life and Mind Building in 2024 that will include extensive laboratory provision with controlled environment rooms, glasshouses and an imaging suite. The Department also benefits from extensive facilities at the John Krebs Field Station at Wytham, with Wytham Woods nearby, as well as partnerships with organisations in the area such as the Oxford Botanic Gardens and Oxford Natural History Museum.

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

# About the Mathematical, Physical, and Life Sciences (MPLS) Division

The Mathematical, Physical, and Life Sciences (MPLS) Division is one of the four academic divisions of the University, alongside the Humanities, Social Sciences and Medical Sciences Divisions. It is led by an academic Head of Division (Professor Sam Howison) and an administrative Divisional Registrar (Dr Tracy Gale) and comprises nine of the University's academic departments – Biology, Chemistry, Computer Science, Earth Sciences, Engineering Science, Materials, the Mathematical Institute, Physics, and Statistics – as well as Begbroke Science Park, the multidisciplinary Ineos Oxford Institute for Antimicrobial Research and an interdisciplinary Doctoral Training Centre.

MPLS is proud to be home to some of the most creative and innovative scientific thinkers and leaders in academia, whose interdisciplinary research is tackling major societal and technological challenges, from new energy solutions or improved cancer treatments to understanding climate change processes and helping to preserve biodiversity, tackling antimicrobial resistance, advancing AI and quantum technologies and space exploration, and much more. The quality and impact of our work have been recognised by successive rounds of the national Research Excellence Framework and Teaching Excellence and Student Outcomes Framework exercises, and our departments frequently top the major higher education league tables. We teach around 7,300 students (including around 3,400 graduate students) and are playing a key part in training the next generation of leading scientists.

Divisional activity is co-ordinated and represented by the MPLS Divisional Office based at 9 Parks Road, in the heart of Oxford's Science Area. The Divisional Office, which is led by the Divisional Registrar, has around 55 dedicated members of staff, as well as a number of colleagues who are embedded in divisional teams but based in central University services (e.g. in Finance, HR and Development).

To find out more, please visit: www.mpls.ox.ac.uk.



# How to apply

Applications are made through our online recruitment portal. Information about how to apply is available on our Jobs website <a href="https://www.jobs.ox.ac.uk/how-to-apply">https://www.jobs.ox.ac.uk/how-to-apply</a>.

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

Application FAQs, including technical troubleshooting advice is available at: <a href="https://staff.web.ox.ac.uk/recruitment-support-faqs">https://staff.web.ox.ac.uk/recruitment-support-faqs</a>

Non-technical questions about this job should be addressed to the recruiting department directly at <a href="mailto:Recruitment@Biology.ox.ac.uk">Recruitment@Biology.ox.ac.uk</a>

To return to the online application at any stage, please go to: <a href="www.recruit.ox.ac.uk">www.recruit.ox.ac.uk</a>.

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: <a href="https://compliance.admin.ox.ac.uk/job-applicant-privacy-policy">https://compliance.admin.ox.ac.uk/job-applicant-privacy-policy</a>. The University's Policy on Data Protection is available at: <a href="https://compliance.admin.ox.ac.uk/data-protection-policy">https://compliance.admin.ox.ac.uk/data-protection-policy</a>.

# 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 70<sup>th</sup> birthday. The justification for this is explained at: <a href="https://hr.admin.ox.ac.uk/the-ejra.">https://hr.admin.ox.ac.uk/the-ejra.</a>

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

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.

# 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 <a href="https://hr.admin.ox.ac.uk/staff-benefits">https://hr.admin.ox.ac.uk/staff-benefits</a>

#### 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 <a href="https://www.sport.ox.ac.uk">www.club.ox.ac.uk</a> and <a href="https://www.sport.ox.ac.uk">https://www.sport.ox.ac.uk</a>.

## 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 <a href="https://welcome.ox.ac.uk/">https://welcome.ox.ac.uk/</a>

There is also a visa loan scheme to cover the costs of UK visa applications for staff and their dependants. See <a href="https://staffimmigration.admin.ox.ac.uk/visa-loan-scheme">https://staffimmigration.admin.ox.ac.uk/visa-loan-scheme</a>

# 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 the Work+Family Space, 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 <a href="https://hr.admin.ox.ac.uk/my-family-care">https://hr.admin.ox.ac.uk/my-family-care</a>

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 https://childcare.admin.ox.ac.uk/

#### 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 <a href="https://edu.admin.ox.ac.uk/disability-support">https://edu.admin.ox.ac.uk/disability-support</a>

#### 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 <a href="https://edu.admin.ox.ac.uk/networks">https://edu.admin.ox.ac.uk/networks</a>

## 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 <a href="https://www.newcomers.ox.ac.uk">www.newcomers.ox.ac.uk</a>.











