



| | |
|--------------------------|--|
| Job title | Data Wrangler/ Data Scientist |
| Division | Medical Sciences |
| Department | Nuffield Department of Medicine |
| Location | Big Data Institute, Li Ka Shing Centre for Health and Information Discovery, Old Road Campus, Headington, Oxford, OX3 7LF |
| Grade and salary | Grade 7: Salary in range £38,674 - £46,913 per annum (pro rata). This is inclusive of a pensionable Oxford University Weighting of £1,500 per year (pro rata). |
| Hours | Full time |
| Contract type | Fixed-term contract for 2 years Funding is provided by Novartis |
| Reporting to | Dr. Habib Ganjgahi, Senior Research Fellow |
| Vacancy reference | 177592 |

| | |
|----------------------|---|
| 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.bdi.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 |



The role

The Big Data Institute at the Nuffield Department of Medicine is looking to appoint a Data Wrangler/Data Scientist to manage and curate the unique, highly multi-dimensional data available from the Oxford–Novartis Collaboration for AI in Medicine. You will carry out work in a manner which ensures robust and reproducible research and apply image processing and machine learning pipelines to the image data gathered by Novartis as part of their clinical trials research for multiple sclerosis. Your efforts will grow the derived data in the NO.MS (Novartis-Oxford MS) database and you will apply new methods to the data as they are developed by the team. You will support the research scientists in the BDI and Novartis to access versioned data, understand data standards and interpret coding methods, support software development and the capture of analytical outputs. You will be based in the Oxford Big Data Institute which has a cross-project network of data wranglers and data engineers who meet regularly to share best practice and experiences.

Responsibilities

You will:

- Develop and apply pipelines that will use existing and newly developed methods to process the NO.MS image data, assessing quality of the resulting output.
- Act as an interface between the different data analytical and data provisioning teams
- Support and collaborate with scientists and clinicians at University of Oxford and Novartis, to help support data annotation strategies and reproducible data analysis
- Contribute to the research articles developed across the consortium
- Present the outputs of work at weekly Oxford meetings and at Oxford-Novartis Scientific boards
- Communicate effectively using a variety of platforms, such as email, teleconferences, attending and presenting at international meetings and conferences
- Keep key people informed on progress and developments connected with delivery of each particular assigned task
- Build and maintain effective communications and relationships internally and externally with representatives from key personnel
- Maintain confidentiality regarding research data and ensure information governance principles are adhered to across the project and team
- Support data transfers, tracking, data corrections and troubleshooting, and reporting
- Act as a source of information and advice to other members of the group on methodologies or procedures
- 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 research groups
- 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 degree in life sciences, computational or equivalent
- Experience in programming (with python or R)
- Experience in bioinformatics techniques, data management and / or relational databases
- Experience in clinical trial data management
- Excellent organisational and prioritisation skills
- Ability to manage own workload and project manage a team of data scientists
- Capable of working under pressure at times to meet deadlines
- Great written and oral communication skills including ability to present complex information in a concise and clear manner to people from different backgrounds
- Strong interpersonal skills with evidence of having developed and maintained effective working relationships
- Experience of data presentation
- Flexible, pro-active and adaptable team worker

Desirable

- Background in mathematical or scientific field
- Knowledge of clinical data standards and application in real world examples
- Experience with clinical studies' data, data standards and procedures
- Experience of presenting at (inter)national workshops and meetings

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>



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.

