APPLICATION FOR TRANSFER OF A GRADUATE STUDENT FROM ONE STATUS TO ANOTHER

(Mathematical, Physical & Life Sciences Division only)

Staff notice: *This form contains personal data and may contain sensitive information. Please ensure that downloaded or printed copies are stored securely. Please retain information only for as long as you need it and then dispose of it confidentially. Further advice about handling student data can be found here: (https://academic.admin.ox.ac.uk/student-data).*

Students are reminded that there is a checklist available on the MPLS Graduate School website to help prepare for Transfer of Status: https://www.mpls.ox.ac.uk/graduate-school/information-for-postgraduate-research-students/progression

This form together with any supporting and subject specific documentation required, should be sent to your departmental contact. (please refer to www.ox.ac.uk/students/academic/guidance/graduate/contacts/ for contact details).

Please complete SECTION 1 and 2, and then ensure that SECTION 3 and SECTION 4 are completed by your supervisor and college. You should make sure that you are aware of the maximum fee liability you will incur in your proposed new status, and consult your college or Graduate Studies Assistant if in doubt.

Students who require adjustments to the assessment arrangements for Transfer of Status due to disability, under Section 6 of the General Regulations for Research Degrees (https://examregs.admin.ox.ac.uk/Contents), should also complete the GSO.19 Application for Adjustment to Assessment Arrangements form available at: https://www.ox.ac.uk/students/academic/guidance/graduate/progression. Guidance for Directors of Graduate Studies on such adjustments is available in Annex C of the Policy and Guidance on Research Degrees at https://academic.admin.ox.ac.uk/research-degrees

Please use **BLOCK CAPITALS** (unless typed), and refer to the current edition of the *Examination Regulations* or relevant departmental or divisional guidance notes or handbooks, where full details of the relevant transfer requirements are given.

SECTION 1 – Declaration of consent *(to be signed by the student)*

I understand that the information and any materials that I supply in support of this application will be processed by the University in accordance with the Student Privacy Policy https://compliance.admin.ox.ac.uk/student-privacy-policy. I consent to my information being used for the purposes of this application.	
I consent to disclosure within the above limits	✓ **Yes** ❑ **No**
Signature of Student:	

SECTION 2 – to be completed by the student. Please use **BLOCK CAPITALS** (unless typed)

Surname:	MORROW		Title (Mr/Mrs/Miss/Ms/etc.	MR
First name (in full):	JOE		Student Number:	1015886
College:	The Queen's College	Department:	Inorganic Chemistry	
Current status (i.e: PRS, M.Sc.(R)):		PRS		
Status to be transferred to (i.e. D.Phil):		D.Phil		
Title of thesis proposed or branch of study:	(**NOTE:** For students admitted in or after October 2007(please tick box); *I am aware that I must deposit a digital copy of my thesis following successful completion of my degree, and am aware of copyright issues* (http://www.bodleian.ox.ac.uk/ora/oxford_etheses)			✓
Data-driven design of interatomic potentials for metastable chalcogenides				
Date of admission as graduate student:	28 / 09 / 2020	**OFFICE USE ONLY** Last Term:		

RESEARCH ETHICS APPROVAL ***(Please tick ONE box only)***

1.	I confirm that my research will not involve human participants or require the use of personal data and therefore ethical approval will not be required. ✓
2.	My research may involve human participants or require the use of personal data and I will seek the appropriate ethical approval before commencing my research. ❑
3.	My research involves human participants or requires the use of personal data. I have completed a CUREC1/1A and my research poses no/low risk; or I have completed an OxTREC minimal risk application. ***Please indicate your current approval status:*** (a) I am awaiting approval of my CUREC1/1A (or OxTREC minimal risk application) from the appropriate REC. ❑ OR (b) I have received approval of my CUREC1/1A (or OxTREC minimal risk application) from the appropriate REC. ❑
1.	My research involves human participants or requires the use of personal data. I have completed a CUREC1/1A and my research poses high/indeterminate risk; or I have completed an OxTREC full application: ***Please indicate your current approval status:*** (a) I am awaiting approval of my CUREC2 (or NHS REC or OxTREC full application) from the appropriate REC. ❑ OR (b) I have received approval of my CUREC2 (or NHS REC or OxTREC full application) from the appropriate REC. ❑

RESEARCH INTEGRITY

Students are reminded that they have to completed the University's online research integrity training before applying for transfer of status. The training is available at https://weblearn.ox.ac.uk/portal/hierarchy/skills/ricourses

The University's research integrity policies may be found here: https://researchsupport.admin.ox.ac.uk/governance/integrity/policy. The University takes seriously any concerns raised about research practice, and those found to have engaged in research misconduct may face disciplinary action

I confirm that I have completed the online research integrity training and attach the emailed certificate of completion as evidence of this. ***If you have not yet completed the training, please do so before submitting this form***	❑ Yes ✓ n/a as I am on one of the CDT programmes list below

Students on the following CDT programmes are not required to complete the online training, as the required training is already completed as part of the CDT programme:

Autonomous Intelligent Machines and Systems CDT
Inorganic Chemistry for Future Manufacturing (OxICFM) CDT
Future Propulsion and Power CDT
Modern Statistics and Statistical Machine Learning CDT

I confirm that I understand my responsibility to the principles of research integrity as set out in the University's policies, in particular (delete any which do not apply):

	Research data and records management (including data protection and information security)
✓	Authorship and intellectual property
✓	Plagiarism, copyright and proper referencing
✓	Conflicts of interest (e.g. with respect to examining, recruitment, licences)
✓	Health and safety (including fieldwork)
✓	Research misconduct
~~●~~	~~Human participants in research *(cross out if not applicable)*~~
~~●~~	~~Research involving animals *(cross out if not applicable)*~~

I confirm that I am aware of the University fee liability applicable to the proposed new status

Signature:		Date:	25/07/2022
Full name:	Joe Morrow		

SECTION 3 – to be completed by the current supervisor[1]

Comments on the proposed research subject and the readiness of the candidate to undertake advanced research:

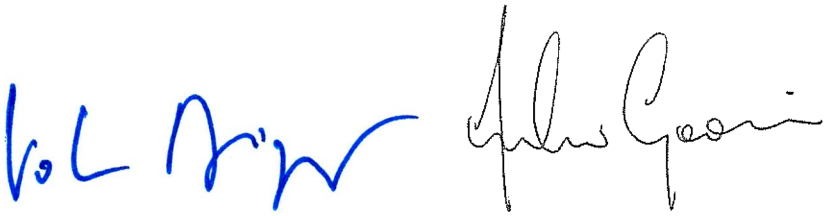
Joe's project combines methodological developments in computational inorganic chemistry with experimental and computational investigations of structurally complex materials. In regard to the former, he has developed a promising approach for fitting fast "machine-learned" interatomic potentials (with a first publication in press), and is working on advanced structure-searching and -prediction methods. In regard to the latter, his project is expected to give new insight into important research questions in structural solid-state and materials chemistry – particularly, the nature of coordination defects in amorphous silicon, and the chemical structure of amorphous Mo–S phases. He has also begun experimental studies of Mo–S materials which will allow him to test predictions from his computations.

Joe has had a very successful start to his doctoral studies and is entirely on track for the transfer of status assessment. We support his application without hesitation.

In addition to the comments above, please tick **one** of the following options:

☑	I have no concerns regarding this student's readiness to apply to transfer status.
❑	I have mild concerns regarding this student's readiness to apply to transfer status, and have discussed these with the student.
❑	I have serious concerns regarding this student's readiness to apply to transfer status, and have discussed these with the student.

Part of the responsibility of a supervisor is to ensure the student develops good research practice skills. I confirm that I have discussed with the student the relevant principles of good research practice *(see checklist above)*	☑ Yes (VLD, points 1–6)

Signature:		Date:	16 Aug 2022
Full name:	Prof Volker Deringer Prof Andrew Goodwin		

Supervisors are also asked to include a brief comment on the supplementary information provided by the student. Any further report by the supervisor may be attached to this form or may be sent under separate cover to the relevant Graduate Studies Assistant *(www.ox.ac.uk/students/academic/graduates/contacts/)*, for communication to the relevant Committee.

[1] Within Section 3, supervisors are asked to provide a statement containing their view of the proposed research subject for a thesis and of the readiness of the candidate to undertake advanced research. A supervisor may delay an early application in the interests of the student but must enable students to apply for their assessment within the prescribed times limits.

SECTION 4 – to be completed by the college's Tutor for Graduates

Does the college support the application:	☒ Yes ❑ No		
Comments on behalf of the college:			
Signature:		Date:	19.08.2022
Full name:	Dr Sarah McHugh		
Position (if not Tutor for Graduates)	Academic Administrator		
College stamp:			

SECTION 5 – to be completed by the Director of Graduate Studies (or equivalent)

Comments			
I certify that this application has the approval of the candidate's department		❑ **Yes**	❑ **No**
Signature of DGS (or equivalent):		Date:	
Full name:			

SUPPLEMENTARY INFORMATION TO BE PROVIDED BY THE STUDENT

The University recognises that the identification of particular areas of skills training and development is a regular aspect of a student's work with their supervisor(s). It regards transfer of status as an appropriate point at which to ask the student, with the help of their supervisor(s), to:

- *record those subject-specific and personal and professional skills which the student has already acquired in the course of Probationary Research Student status;*
- *identify any such skills which might require further development or refinement;*
- *note any other related activities, e.g. presentation of posters, attendance at conferences, etc., which have made a contribution to the development of the student's work.*

In making this record available to transfer assessors and to those responsible for approving applications for transfer, the University does not wish to make this a formal aspect of the transfer process, but to acknowledge the importance of such activities in a research student's training and to provide assessors and others with a fuller picture of an individual student's progress. It also aims to help individual students cope with the increasing expectation on the part of Research Councils and other funding bodies that, in conjunction with their supervisor(s), they will maintain a record of such skills and achievements throughout the course of their career as a research student.

A. Please describe briefly any subject specific research skills that you have developed or improved in the course of your time as a Probationary Research Student. For example, these might include: research methodology; data analysis and management; record keeping; bibliographical skills; presentation of research

- Laboratory skills: handling and synthesis of air-sensitive compounds (glove box) with Dr. Simon Cassidy.
- Collection and analysis of X-Ray diffraction and Raman spectroscopy data for amorphous materials.
- Programming: Python for analysis of research data, Julia and Fortran for high-performance Monte Carlo code, version control and coding-collaboration via Git.
- Scientific writing through joint authorship of paper with supervisor.
- Collaboration: opportunities taken to communicate directly with senior researchers.

B. Please describe briefly any personal and professional skills in which you have received training or which you have enhanced during the course of your time as a Probationary Research Student. For example: time management, language skills, IT skills, team work, problem solving, presentation skills, teaching skills, career planning.

- Time management: I have been managing multiple projects, lab work, Part II projects, teaching, and collaborations simultaneously.
- Graphic design: for making attractive figures using Adobe Illustrator.
- Presentation skills: the OxICFM CDT taught course involved plentiful opportunities to present to an audience, as has the group meetings that come with being a member of two research groups (Deringer and Goodwin).
- Teamwork: the OxICFM CDT taught course involved team presentations and tasks. I have also participated in a group project on best practice and benchmarking for DFT calculations.
- Guidance on applications for beam time at ISIS neutron facility.
- Teaching experience via tutoring of Quantum Supplementary Course and undergraduate course for Queen's College.
- Data management via OneDrive.

C. Please identify any subject-specific or personal and professional skills in which you (and your supervisor(s)) foresee the need for further development or training.

Further improvement needed for:

- Planning work across longer periods of time, e.g. to ensure full use of allocated computing budgets.
- Efficient management of multiple projects simultaneously.
- Organisation of research data and analysis into smaller, more easily-identifiable packages (Jupyter notebooks) with more reliable version control (Git).
- Better communication with other researchers at events such as conferences and departmental seminars.

D. Please list any other activities which have contributed to the development of your work. For example, these might include courses attended, conference presentations given, publications, opportunities to undertake teaching, etc.

- Submitted article titled 'Indirect learning and physically-guided validation of interatomic potential models' to Journal of Chemical Physics (pending).
- Tutored for Quantum Supplementary course and undergraduate classes at Queen's
- Supervised Part II student.
- Supervised TMCS MSc student.
- Gave poster presentation at OxICFM CDT Science Day.
- Accepted for oral presentations at GAP Developers & Users Meeting (Aug 2022) and The DPG Spring Meeting of the Condensed Matter Section (Sep 2022).
- Accepted for poster presentation at Psi-K conference (Aug 2022).
- Regular attendance at departmental seminars (ICL, PTCL, Theory, and Solid-state)_
- Attended MPLS courses:
  - Leading collaboration: bringing people together to achieve the extraordinary
  - Networking: a systematic approach
  - Research ideas with enterprise tools: Charting it out