



**UNIVERSITY OF LINCOLN
JOB DESCRIPTION**

JOB TITLE	Post Doctoral Research Associate				
DEPARTMENT	School of Mathematics and Physics				
LOCATION	Brayford Pool				
JOB NUMBER	COS894	GRADE	7	DATE	June 2022
REPORTS TO	Matt Watkins				

CONTEXT

We have an excellent opportunity for an enthusiastic materials scientist and software developer to join the School of Mathematics and Physics to work on the open-source CP2K code. The successful candidate will be working at postdoctoral level on the EPSRC funded software for research communities project "CP2K For Emerging Architectures And Machine Learning", EP/W030489/1.

This is a fixed term project for 36 month, starting on the 1st September 2022.

JOB PURPOSE

The Post Doctoral Research Associate is responsible for conducting research on the project, as directed by the Principal Investigator, and is expected to operate with a significant degree of autonomy. They are not expected to operate as an independent researcher.

The post holder may be required to help supervise the work of more junior researchers.

KEY RESPONSIBILITIES

Literature Surveys

Undertake literature surveys and other investigations of the state-of-the-art, and prepare reports as required.

Programme of Research

Undertake a programme of research under the direction of the Principal Investigator, demonstrating a significant level of autonomy.

Lead in the production of high quality research outputs, including scientific software, documentation, reports, papers and other publications of international standing.

Project Management

Perform project management activities, planning, scheduling, monitoring and reporting on progress of research projects.

Liaison and Networking

Identify and liaise with internal and external collaborators, and with colleagues in the Department, maintaining positive and effective working relationships.

Internal Research Activities

Participate in and help to organise internal research activities, including seminars, research meetings and conferences.

Continuous Professional Development

Undertake continuous professional development activities.

Grant Applications

Contribute to the production of grant applications.

Teaching Support

Engage in teaching support activities, up to a maximum of six hours per week, possibly including leading a small number of units (no more than two per annum).

Aid in the supervision of postgraduate research students.

In addition to the above, undertake such duties as may reasonably be requested and that are commensurate with the nature and grade of the post.

ADDITIONAL INFORMATION

Scope and dimensions of the role

The PDRA will contribute to the milestones and deliverables of the externally funded project as set out in the accepted grant application.

Key working relationships/networks

Internal	External
<ul style="list-style-type: none">• Principal Investigator• Head of Research Centre• Head of School• Other research and academic staff within the school	<ul style="list-style-type: none">• Research collaborators• Sponsors and clients



**UNIVERSITY OF LINCOLN
PERSON SPECIFICATION**

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Selection Criteria	Essential (E) or Desirable (D)	Where Evidenced Application (A) Interview (I) Presentation (P) References (R)
Qualifications:		
PhD or equivalent (good candidates may be accepted with a PhD pending, subject to publication record)	E	A
Extensive knowledge specific to project/area	E	A/I
Experience:		
Extensive experience of relevant research methods	E	A/I
Authorship of research outputs of national/international standing	D	A/I
Experience of research in specific project area	D	A/I
Teaching support	D	A/I
Skills and Knowledge:		
Ability to design, conduct and project manage original research in the subject area	D	A/I
Excellent written communication, including the ability to write reports and research outputs	D	A/I
Ability to prioritise own workload and work to specified deadlines under pressure	D	A/I
Ability to communicate complex subjects orally	D	A/I
Skills specific to project/area – including knowledge or python or Fortran	E	A/I
Competencies and Personal Attributes:		
Flexible approach to workload	D	I
Ability to work on own and as part of a team	E	I
Enthusiasm and commitment	E	I

Essential Requirements are those, without which, a candidate would not be able to do the job. **Desirable Requirements** are those which would be useful for the post holder to possess and will be considered when more than one applicant meets the essential requirements.

Author	Matt Watkins	HRBA	AH
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