

## JOB DESCRIPTION

Ref: A2787

<b>Job Title:</b>	Research Fellow (Research Software Engineering)	Grade 8
<b>Department/College:</b>	Mathematics & Statistics	
<b>Directly responsible to:</b>	Professor Idris Eckley	
<b>Supervisory responsibility for:</b>	N/A	
<b>Other contacts</b>		
<b>Internal:</b> PhD students and other members of staff associated with the STOR-i Centre for Doctoral Training, and allied colleagues in the departments of Mathematics & Statistics and Management Science.		
<b>External:</b> Members of the broader STOR-i research community, major industrial partners, academics at strategic international academic partner institutions and EPSRC.		
<b>Major Duties</b>		
To act as research fellow, championing research software engineering for the Centre. This duty principally involves:		
Undertaking research, doctoral-level training and research software development necessary to achieve the goals of the STOR-i programme.		
Lead the development and implementation of appropriate mechanisms for triaging research software development support: from ad-hoc queries in support of students coding needs (bug fixes, coding strategies and suitable packaging of code for journal publications etc.) to identifying and leading the full development of proof of concept work into full, open-access packages. Packages should be developed to a high standard, and accompanied by appropriate levels of documentation (help files, vignettes etc.), i.e. suitable for open access deployment.		
Lead the Centre’s activities in research dissemination via software, including leading and contributing to research software.		
Develop and deliver training in foundational R, Python and C programming, introducing key software engineering skills e.g. revision control, testing, scripting, code profiling, parallelisation and optimisation.		
Act as a champion and beacon for good doctoral-level STOR computing practice, to include the development and delivery of specialist programming training for students and staff (as appropriate), coordinating meetings/focus groups with the Centre’s students and other end users to identify their needs; provide the STOR-i community with guidance on subject-specific software issues; identifying and promoting state of the art STOR computing and visualisation techniques within the CDT.		
To lead and contribute to other aspects of the research where appropriate. This may include identifying relevant literature from the computer sciences, engaging in the planning and development of new activities, and contributing to the broader knowledge transfer and impact agenda.		
To engage in personal development opportunities, and exploit opportunities to further develop the research work through funding.		
Participate in national and international conferences in STOR computing, and lead in the organisation of workshops to present the results of the programme to a wider audience and keep abreast of current advances in the field.		
Act as a referee and contribute to peer assessment of research publications and grant proposals.		
Carry out other duties appropriate to the grade of the post as requested by the STOR-i Directors.		