



<b>Job title</b>	Research Fellow	<b>Job family and level</b>	Research and Teaching Level 4
<b>School/ Department</b>	School of Computer Science	<b>Location</b>	Jubilee Campus

## Purpose of role

Responsible AI (RAi) is a national research and innovation programme led by the University of Southampton, with University of Nottingham and King’s College London as core partners. The Responsible AI UK programme is a £31M strategic investment by the UK Government to create an international ecosystem for responsible AI research and innovation (for more details, see [www.rai.ac.uk](http://www.rai.ac.uk)). As part of this initiative three keystone projects have been funded to deliver world-leading interdisciplinary research undertaking a variety of activities focused on one strategic theme. Addressing Socio-technical Limitations of LLMs for Medical and Social Computing (AdSoLve) is an exciting keystone project addressing the socio-technical limitations of Large Language Models (LLMs) that challenge their responsible and trustworthy use, particularly in the context of medical and legal use cases (for more details, see <https://adsolve.github.io/>).

The post-holder will primarily work on this prestigious new project, which is being led by Professor Maria Liakata from Queen Mary University London and will be based at the University of Nottingham and part of the broader RAi ecosystem. The application of LLMs in real world settings is limited and this project aims to create an extensive evaluation benchmark for their use, enabling our standards and policy partners to robustly assess their systems. The role holder will be on the workpackage helping to achieve this synergy through co-creation and evaluation workshops throughout the project, supporting a co-production feedback loop with project and policy stakeholders, and co-led by Dr Aislinn Gomez Bergin.

This role would be ideally suited to an ambitious and proactive researcher who is keen to commit to and help shape the future of AI research in this area over the next four years and into the future. They will need an in-depth understanding of responsible research and innovation and how this can be applied to address the sociotechnical challenges of AI within complex systems.

A key focus of the role will be understanding the perspectives of multiple stakeholders across AI, law, and medicine. This will involve carrying out research activities across different sectors, disciplines, and contexts and will involve scoping activities such as stakeholder mapping and literature reviews, designing and conducting qualitative and quantitative fieldwork, analysis and writing up of findings for interim and final reports, and producing outputs for academic, industrial, and practitioner-focused knowledge exchange. The post-holder will also have the opportunity to contribute to RAi projects and activities including the opportunity to engage in independent research.

	<b>Main responsibilities</b> (Primary accountabilities and responsibilities expected to fulfil the role)	<b>% time per year</b>
1	To design and conduct co-production informed research and activities using recognised approaches, methodologies, and techniques to understand the perspectives of stakeholders across AI, law, and medicine in relation to the use of LLMs. These are to include evaluation workshops throughout the project with a range of stakeholders.	30%
2	Day to day management of the University of Nottingham AdSoLve activities including planning research, organising project meetings, and producing reports and publications for internal and external use.	25%
3	Liaise and work across the AdSoLve project partners, other researchers, and partners, as well as stakeholders within the national AI infrastructure to ensure that findings are communicated as needed. This will include planning and conducting joint research, dissemination activities, and events.	20%
4	Assist with the preparations of applications to both external and/or internal bodies for funding, contractual, and accreditation purposes.	5%
5	Attendance of meetings and conferences.	5%
6	To assist in supervision of postgraduate and undergraduate students.	5%
7	To plan and manage own research/development activity and resolve problems, if required, in meeting own/team research objectives and deadlines in collaboration with others.	5%
8	Any other duties as allocated by the line manager following consultation with the post holder.	5%

## Person specification

	Essential	Desirable
<b>Skills</b>	<ul style="list-style-type: none"> <li>• Expertise in research design and research methodology.</li> <li>• Excellent organisational skills</li> <li>• Understanding of key areas within health, law, and/or AI.</li> <li>• High quality writing for academic and practitioner audiences, with evidence of ability to publish at national level (to include conference and working papers).</li> <li>• Proficiency in IT (Word, Excel, database use).</li> <li>• Ability to work autonomously and exhibit initiative.</li> <li>• Manage own workload.</li> <li>• Excellent written and verbal communication skills.</li> <li>• Highly organised, able to work effectively on several projects simultaneously, working to deadlines, and prioritising tasks.</li> <li>• Ability to work well in a team and interdisciplinarily.</li> </ul>	<ul style="list-style-type: none"> <li>• Skills in algorithm design, model design, empirical methods, explainable AI, causal reasoning</li> <li>• Understanding of the relevant standards, legislation, and regulation</li> </ul>
<b>Knowledge and experience</b>	<ul style="list-style-type: none"> <li>• Experience of planning and conducting qualitative data collection (e.g. interviews, focus groups, observation)</li> <li>• Experience of analysing qualitative and quantitative data using relevant tools such as NVivo and/or SPSS.</li> <li>• Experience of conference presentations, journal publications and report writing.</li> <li>• Identification of stakeholders in large socio-technical systems; engagement and interaction with such stakeholders in a sensitive and professional way.</li> <li>• Experience of conducting research or other types of engagement across different stakeholders.</li> <li>• Understanding of responsible research and innovation.</li> </ul>	<ul style="list-style-type: none"> <li>• Experience in AI research, applied or closely related (e.g., ethics of AI, AI policy, responsible data governance)</li> <li>• Experience of responsible research and innovation frameworks.</li> </ul>

<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"><li>• Good first degree or equivalent in a relevant area (computer science, law, healthcare, etc.)</li><li>• PhD in a subject area of relevance</li></ul>	
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The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.

## Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
- Taking ownership** Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.
- Forward thinking** Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
- Professional pride** Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
- Always inclusive** Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

## Key relationships with others



