

The Alan Turing Institute

Turing Deployment Advisor

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There has never been a more significant time to work in data science and AI. There is recognition of the importance of these technologies to our economic and social future: the so-called fourth industrial revolution. The technical challenge of keeping our data secure and private has grown in its urgency and importance. At the same time, voices from academia, industry, and government are coming together to debate how these technologies should be governed and managed.

The Alan Turing Institute, as the UK's national institute for data science and artificial intelligence, plays an important part in driving forward advances in these technologies in order to change the world for the better.

The Institute is named in honour of Alan Turing, whose pioneering work in theoretical and applied mathematics, engineering and computing is considered to have laid the foundations for modern-day data science and artificial intelligence. The Institute's purpose is to make great leaps in data science and AI research to change the world for the better. Its goals are to advance world-class research and apply it to national and global challenges, build skills for the future by contributing to training people across sectors and career stages, and drive an informed public conversation by providing balanced and evidence-based views on data science and AI.

After launching in 2015 with government funding from EPSRC and five founding universities, the Institute has grown an extensive network of university partners from across the UK and launched a number of major partnerships with industry, public and third sector. Today it is home to more than 300 researchers, a rapidly growing team of in-house research software engineers and data scientists and a business team.

BACKGROUND

BridgeAI is a national AI adoption programme supported by The Alan Turing Institute and funded by Innovate UK. The programme aims to accelerate the deployment of advanced AI across the UK's growth-driving sectors, supporting organisations to adopt innovative AI solutions and helping UK AI SMEs bring technologies into real-world use. Through collaboration across industry, government and the innovation ecosystem, BridgeAI will help strengthen UK productivity, competitiveness and AI leadership. The Turing's role in the programme will be supporting and advising companies seeking to deploy AI solutions into their business operations through a mix of 1-1 advice, cohort-based training, and application toolkits.

ROLE PURPOSE

The Turing Deployment Advisor (TDA) is a crucial role within the programme. The TDA provides targeted strategic and technical guidance across the programme lifecycle, ensuring that AI deployment is demand-led, operationally grounded and aligned with real-world constraints. The expertise and guidance of the TDA will support with the organisations AI readiness assessment, its deployment plans, as well as the development of credible, high-value use cases, helping end users articulate operational problems, success criteria, constraints and deployment pathways.

The TDA will contribute to programme shaping, including the criteria for a strong AI deployment use case and the characteristics required for progression through the programme funnel. In addition, TDAs will focus on AI deployment key decision points: use-case validation, operational and technical framing and readiness for progression through stage gates. Insights and learning from use-case development and end-user engagement will be translated into practical tools, adoption benchmarks and guidance to support wider deployment planning across sectors. The TDA will participate in public facing activities, disseminate lessons learnt and new tools developed in collaboration with the rest of the team.

The TDA will operate as part of a structure cohort, working under the direction of the Principal Investigator, Vera Matser, and in close collaboration with the Technical Lead, Senior Research Community Manager, and Programme Manager. TDAs are expected to participate in regular community calls and in-person meetings with the wider cohort, sharing insights from their engagements to support collective learning and programme-level understanding.

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HOW YOU WILL MAKE AN IMPACT

To form a balanced team of Advisors we are looking for a range of applicants to deliver the following responsibilities across the cohort. Candidates may be able to contribute in some, or all, of these areas:

- **Use Case Development:** TDAs will work with prospective companies to scope, develop, and harden their prospective use case for the deployment of AI solutions in critical operations.
- **AI Deployment Capability Building:** TDAs support organisations in strengthening their internal AI capabilities, enabling them to navigate complexities of critical process deployment. This includes co-creating a deployment plan for companies in the programme, enhancing leadership understanding of AI deployment, building technical skills within teams, and helping organisations establish internal assurance and competence needed to sustain and scale their deployment beyond the advisory engagement
- **End-user Readiness Assessment:** TDAs provide an initial assessment of whether the organisation has a credible operating environment for deployment, covering proposed site or context, operational need, internal sponsor, data access, likely workflow implications, governance constraints and any major dependencies that could affect progression
- **Technical Deployment Guidance:** TDAs guide organisations through their AI deployment journey, building on the initial assessments, site readiness, governance approvals, workflow changes, staff roles and change management requirements. TDAs provide both generalist and specialist AI expertise covering the latest developments in AI and ML, as well as best practice in areas such as AI security, privacy, and safety. Where relevant, TDAs will source additional expertise for deployers, depending on the unique needs of the company.
- **Safety, Ethics, and Assurance Advice:** TDAs advise on risk identification (bias, misuse, hallucination, privacy, IP, safety), proposing mitigations and helping companies to define documentation. Advice is aligned to recognised frameworks (e.g., ISO/IEC 23894 AI risk management, ISO/IEC 42001 AI management systems, ISO/IEC 27001/27701, NIST AI RMF) and emerging AI assurance standards from the National Physical Laboratory.
- **Evaluate & Monitor Progress:** TDAs track organisational progress throughout the deployment journey, providing targeted technical assurance input for high-risk or complex projects. They use the baseline assessment and collect evidence to support stage gates and stepwise funding decisions. TDAs should flag concerns early, advise when a deployment should be paused or should not proceed, and recommend appropriate monitoring mechanisms to sustain performance post go-live.
- **Share Domain Expertise:** TDAs will utilise their expertise in one or more of the Industrial Strategy Eight sectors (Advance Manufacturing, Clean Energy Industries, Creative Industries, Defence, Digital and Technologies, Financial Services, Life Sciences, Professional & Business Services) to guide organisations with their AI deployment journey. TDAs will also use this expertise to contribute to the overall programme from a domain perspective, sharing insights back to the wider programme and IS-8.

OTHER DUTIES

- **Multi-site Deployment Assessment:** Provide guidance whether deployment can be repeated beyond the initial live site. Consider which elements of the deployment model, integration approach, operating model, data requirements and assurance evidence can be reused or adapted for additional sites or end users. TDAs should identify and track any changes, dependencies, and risks that need to be addressed for replication.
- **Generating Generalisable Outputs:** TDAs capture and collaborate on generating reusable materials generated through the project, including deployment templates, assurance artifacts, integration learning, operating assumptions, benefits and risks evidence and practical guidance for future deployers. Supporting the generating of templates, frameworks, tools, and to capture of lessons learnt and user stories to feedback into the development of the BridgeAI programme.
- **Supplier and Integrator Management:** advising or assessing organisations on third-party AI suppliers, procurement, and contracts deliverables, timeline and costs
- **Delivering Targeted Workshops:** Designing, delivering, and participating in targeted workshops, focusing on scaling support for companies seeking guidance on AI deployment across sectors, including developing use

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cases, assessing data and capabilities, and by sharing practical tools, adoption benchmarks and guidance on other topics as identified during the programme

- **Impact Reporting and Dissemination:** TDAs are expected to support collecting impact evidence in different forms, including cowriting case studies and videos, and contributing to high-level lessons for programme level learning.

RESPONSIBILITIES / PERSONAL CHARACTERISTICS

- **Collaborative Approach:** TDAs work closely with supported organisations to identify their pain points, understand their unique requirements, and design tailored deployment plans that address business strategic, technical and regulatory challenges. Equally, TDAs are expected to work collaboratively across the wider TDA cohort and programme team, leveraging the collective expertise of a diverse panel with complementary academic and industry backgrounds. By sharing insights from their engagements, TDAs contribute to the collective intelligence of the programme, ensuring that learning from individual deployments benefits the wider BridgeAI community
- **Complex Problem Solving:** Focussing on addressing hard to solve issues and complex, interconnected problems. Helping organisations gain a clearer perspective when they cannot see the bigger picture, enabling them to overcome obstacles and make informed decisions to ensure sustainable AI deployment.
- **Engagement and Influence:** TDAs will engage with AI Sector Champions, relevant regulators and sector bodies as representatives of the Institute's participation in BridgeAI to raise awareness, validate assumptions, and surface dependencies that could influence the design and delivery of the programme and its outputs.
- **Network:** Sharing and expanding a network of AI ecosystems, sharing useful connections with participating organisations, relevant to their identified deployment challenges with the aim of successful operational AI deployment.

Please note that job descriptions cannot be exhaustive, and the postholder may be required to undertake other duties, which are broadly in line with the above key responsibilities. This job description is written at a specific time and is subject to changes as the demands of the Institute and the role develop.

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PERSON SPECIFICATION		
Skills and Requirements	Essential (E) Desirable (D)	Tested at application (a) Tested at interview (i)
Post holders will be expected to demonstrate the following:		
Knowledge and Experience		
PhD or equivalent level of industry experience.	E	A
Bachelor's degree or a master's degree in a discipline which provides a good basis for understanding statistics, data science and programming.	E	A
Demonstrable expertise in deployment of data science and AI technologies, either in a <u>generalist capacity and/or in defined specialised area(s) of expertise.</u>	E	A/I
Proven track record in supporting organisations with the adoption of new technologies or implementing cutting edge research.	E	A/I
Working knowledge of UK GDPR/DPA 2018, data governance, information security (ISO/IEC 27001/27701), or AI risk/assurance frameworks (ISO/IEC 23894, ISO/IEC 42001, NIST AI RMF).	E	A
Ability to analyse complex problems, identify interconnections, and propose commercially viable solutions	E	I
Ability to write clear technical artefacts and communicate with both executives and engineers.	E	A
Excellent communication and interpersonal skills to ensure effective collaboration with participant organisations, understanding their needs and providing clear and actionable <u>guidance and appropriate mentoring.</u>	E	I
Leads and directs with responsibility for developing, communicating, and implementing <u>action plans and objectives linked to companies engaged in BridgeAI.</u>	E	A/I
Manages the relationship between stakeholders and can deal with conflicting priorities.	E	I
Strong organisational skills	E	I
Ability to set objectives and regularly monitor and review them.	E	I
Manages time and resources effectively; routinely monitoring and reviewing progress to ensure effective working of self and others. Ensures work is completed to expected standards, timeframes and budgets and in line with objectives.	E	I
Demonstrable experience with workshop and training material development and delivery across the areas described in the duties of the job description	D	A/I
Hands-on familiarity with data engineering and MLOps (MLflow/Kubeflow/SageMaker/Vertex, CI/CD for ML, model registry, observability).	D	A/I
Demonstrable experience with technology procurement processes in industry	D	A
Strong domain expertise in one or more of the eight Industrial Strategy sectors targeted by the BridgeAI program	D	A
Experience working in multidisciplinary teams, leveraging diverse expertise to achieve common goals.	D	I
Other requirements		
Commitment to EDI principles and to the Organisation values	E	I

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TERMS AND CONDITIONS

This part-time (0.2 FTE) post is offered on a secondment basis for 1 year. The successful candidate will remain employed by their home organisation, spending 20% of their working time in this role and 80% in their substantive role. The annual salary will be matched and pro-rated to the 0.2 FTE commitment.

Successful applicants must obtain the agreement of their existing organisation to undertake the secondment before accepting the role. The secondment will be subject to agreement between the Turing and the relevant organisation.

APPLICATION PROCEDURE

If you are interested in this opportunity, please click the apply button below. You will need to register on the applicant portal and complete the application form including your CV and covering letter. If you have questions about the role or would like to apply using a different format, please contact us at recruitment@turing.ac.uk.

Your cover letter should focus on the following:

- Your motivation and interest in applying for this role
- Overview of your AI deployment/advisory experience in IS-8 sector(s), particularly where risk, safety, and assurance were critical; and/or an example of when you helped a company to deploy a data science or AI solution?
- What skills, competencies, and expertise do you bring, both to individual deployments and to the wider TDA cohort?

In your cover letter, please provide specific examples that demonstrate how you meet each of the essential criteria listed in the person specification above. We recommend using the STAR method (Situation, Task, Action, Result) to structure your examples.

EQUALITY, DIVERSITY AND INCLUSION

The Alan Turing Institute is committed to creating an environment where diversity is valued and everyone is treated fairly. We value diversity of background, experience, and perspective, and are proud to be an inclusive employer. We warmly encourage applications from all backgrounds, particularly from groups currently under-represented in our sector. If you feel passionate about this role but don't meet every single requirement, please apply — we recognise that great candidates may bring strengths beyond the criteria listed.

We are committed to making sure our recruitment process is accessible and inclusive. This includes making reasonable adjustments for candidates who have a disability or long-term condition. Please contact us at recruitment@turing.ac.uk to find out how we can assist you.

Please note all offers of employment are subject to obtaining and retaining the right to work in the UK and satisfactory pre-employment security screening which includes a DBS Check.

Full details on the pre-employment screening process can be requested from HR@turing.ac.uk.

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OUR VALUES

The Alan Turing Institute is committed to equality diversity and inclusion and to eliminating discrimination. All employees are expected to embrace, follow and promote our [EDI Principles](#) and Our Values.

Our values



Trust

We create an environment where we have trust and can be trusted



Inclusivity

We expect our Turing community to contribute to a culture that is inclusive and free of barriers



Respect

We all have different roles, priorities and challenges but our shared purpose is the same



Leadership

Leadership is everyone's business; Turing leaders set the right tone and lead by example



Transparency

Everyone should understand the how and the why of our decisions and actions



Integrity

We are all ambassadors for the Turing's mission of changing the world for the better