

# The Alan Turing Institute

## Applied Skills Science Team Support

### BACKGROUND

The Applied Skills Programme, sits within the Turing's Skills department, and includes Data Study Groups (DSGs), the Turing Internship Network (TIN) and other future knowledge exchange and training activities focused on real-world data science problems.

DSGs are Turing's flagship version of a hackathon. They are centred around data and real-world problems and are exploratory and highly collaborative in nature. They provide an engagement tool for postgraduate students and above (participants), as well as industry, government and third sector (Challenge Owners) to engage with the Turing Institute, and its partners. TIN is an internship activity for PhD students to engage with industry on up to 6-month placements.

The Applied Skills Programme requires data science expertise to help prepare, review and QA subject matter and personnel for DSG, TIN and other Turing skills activities. This is a paid training opportunity.

### ROLE PURPOSE

This role will see post holders learning, broadening and applying a wide variety of DS and AI concepts and potential techniques across the full gamut of applications and problems.

Reporting to the Applied Skills Programmes Manager, the role will support the delivery of Data Study Groups in academic and scientific assessments of incoming challenges, participant applications and final reports. The role will also provide support during a DSG event, primarily supporting the facilitators but also the participants to help ensure a smooth and enjoyable event for all stakeholders. For the Turing Internship Network, the role will support qualifying data science jobs for future interns, ensuring they are challenging and non-trivial, and support in the shortlisting of candidates.

The role will also act as a conduit for information sharing within their university and/or university region.

This role is for students currently undertaking a PhD in a data science related field, or adjacent field that involves data science within the UK. The applicant should have at least participated in a DSG or hackathon type event in the past. Prior facilitation experience is a bonus. Remote – Turing will cover travelling costs to be at events.

### DUTIES AND AREAS OF RESPONSIBILITY

- Give academic feedback on prospective DSG challenges, specifically from a participant and facilitator point of view
- Support the Applied Skills business team and DSG PIs in scoping DSG challenges – joining meetings and giving directions of DSG challenges
- General advising for the various scientific and recruitment aspects of Applied Skills programmes – science projects, participants applications, advising PIs
- Assess DSG and TIN participant applications during the selection process, using Flexigrant and attending tensioning meetings
- During a DSG, support the facilitators and participants – troubleshoot, advise and guide facilitators throughout the process during difficult situations or with underperforming groups to ensure their success

- Give academic feedback on the final DSG reports (during the event and at the end) to the PI – providing quality assurance for DSG reports before they are published
- Work with the business team to amplify calls for participants to Applied Skills calls within their own institution and nearby

#### **Other duties**

- Be a facilitator backstop in emergency
- Attend ad hoc one-off events throughout the year talking about DSG.
- Potentially help with corrections on final reports
- Input into the continuous development of the DSG event
- Review and test course materials and use cases

The successful applicant (s) will be expected to attend a weekly one-hour meeting, and some offline work during the week. The level of offline work can vary depending on where in the event life cycle we are.

Estimated required time around 3 - 6 hour per week on average, up to 10 hours per week just before and/or during a DSG.

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.

PERSON SPECIFICATION		
Skills and Requirements Post holders will be expected to demonstrate the following:	Essential (E) Desirable (D)	Tested at application (a) Tested at interview (i)
<b>Education/Qualification</b>		
Working towards a PhD (or equivalent experience and/or qualifications) in a data science related field - include Statistics, Mathematics, Engineering, Computer Science, or related discipline	E	A
<b>Knowledge and Experience</b>		
Fluency in one or more modern programming languages used in research in data science and artificial intelligence(e.g. Python)	E	A
Interested in a wide range of data science and AI techniques.	E	I
Experience with messy real world data.	E	I
Peer reviewing academic papers.	E	A
Participated in a Turing Data Study Group, event.	D	A
<b>Teamwork and Motivation</b>		
Experience facilitating multi-disciplinary groups towards a common goal.	D	A
<b>Liaison and Networking</b>		
Industry or consultancy experience in data science problems/context.	D	I
Experience in making or evaluating the case for new projects (e.g. authoring or evaluating research proposals or business cases).	D	I
<b>Initiative and Problem Solving</b>		
Designing academic studies and experiments (Taking industrial problems and turning them into academic investigations).	E	I
<b>Analysis and Research</b>		
Ability to rapidly assess industrial/commercial problems and come up with possible ideas and techniques in how to solve them.	E	I
<b>Other Requirements</b>		

**TERMS AND CONDITIONS**

This zero hour role has the salary of £16.80 per hour.

***Please note all offers 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](mailto:HR@turing.ac.uk).***