

**THE UNIVERSITY OF MANCHESTER**  
**PARTICULARS OF APPOINTMENT**  
**FACULTY OF SCIENCE & ENGINEERING**  
**FACULTY OFFICE SCIENCE & ENGINEERING**  
**DIVISION OF DEPARTMENT OF COMPUTER SCIENCE**  
**TWO MARIE SKLODOWSKA-CURIE EARLY CAREER RESEARCHER IN ROBOTICS AND AI**  
**(MSCA DN “TRAIL”)**

**VACANCY REF: SAE-021488**

**Salary:** Grade 6 £34,308-£42,155 per annum, depending on relevant experience

**Hours:** Full Time

**Duration:** Fixed term from 1/9/2023 until 31/8/2026

**Location:** Oxford Road, Manchester

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**Enquiries about the vacancy, shortlisting and interviews:**

Name: Professor Angelo Cangelosi

Email: [Angelocangelosil@manchester.ac.uk](mailto:Angelocangelosil@manchester.ac.uk)

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**BACKGROUND**

The Doctoral Network TRAIL consists of 15 institutions including universities, research institutions and industry partners. The research area of TRAIL is neural network technology, intelligent robotics and transparency in artificial intelligence. The focus of the research at the University of Manchester will be on neural networks models of language and trust in robots, within Angelo Cangelosi's Cognitive Robotics Lab.

**Overall Purpose of the Job**

ESR PhD Position 1: Interactive language explanations for trust in human-robot communication  
ESR PhD Position 2: Transparent and grounded communication with abstract language

**Key Responsibilities, Accountabilities or Duties**

The range of duties will include:

- Conduct PhD research in robotics and AI
- Conduct individual and collaborative research projects.

- Write up research work for publication.
- Continually update knowledge and understanding in field or specialism.
- Translate knowledge of advances in the subject area into research activity.
- Deal with routine communication using a range of media.
- Communicate complex information, orally, in writing and electronically.
- Prepare reports to project partners and coordinator
- Join external networks to share information and identify potential sources of funds.
- Manage project research and administrative activities, with guidance if required.
- Work with colleagues on joint projects, as required
- Collaborate with academic colleagues on areas of shared research interest.
- Attend and contribute to relevant meetings.
- Use new research techniques and methods.
- Use initiative and creativity to identify areas for research, develop new research methods and extend the research portfolio.
- Use creativity to analyse and interpret research data and draw conclusions on the outcomes.
- Contribute to collaborative decision making with colleagues in areas of research.
- Use research resources, laboratories and workshops as appropriate.
- Plan and manage own research activity in collaboration with others.
- Balance with help the competing pressures of research and administrative demands and deadlines.
- Be aware of the risks in the work environment and their potential impact on their own work and that of others.

## **PERSON SPECIFICATION**

### **Essential;**

- Have a relevant PhD (or equivalent)
- Specialist knowledge in the disciplines of Artificial Intelligence, Computer Science or Engineering or allied disciplines
- Experience in Robotics, AI and/or Neural Networks
- Excellent communication and interpersonal skills
- Excellent time management and organisational skills
- Ability to work independently and as part of a team
- Ability to liaise confidently and effectively with a range of individuals
- Flexible approach to dealing with research problems as they arise
- Willingness to learn and develop
- Ability to present in both written and oral publications
- Ability to meet deadlines
- Strong journal publication record.
- The ability to evaluate complex data
- Ability to contribute to broader management and administrative processes.
- Ability to assess and organise resources
- Understand equal opportunity issues as they may impact on areas of research content.