

Assistant Professor in Digital and Sustainable Technology

CONTENTS

Introduction	2
Our story	3
About the role	4
Person specification	6
How to apply	8

Engineered by:

■ Arizona State University

■ King's College London

■ UNSW Sydney



THANK YOU FOR YOUR INTEREST IN WORKING FOR TEDI-LONDON

Founded by three of the world's top-ranking institutions – Arizona State University, King's College London and UNSW Sydney - and operating with the agility of a startup, we're **different by design**.

Here at our vibrant and accessible campus on Canada Water, we've found a new way to create engineers. And we're throwing everything we've got at it.

From day one, students collaborate on real projects with real businesses and organisations. By the time they leave, they're running with a network of private and public sector partners, fluent in the language of industry.

A million miles from the lecture halls, a thousand curious questions away from rote learning and end-of-module exams, we're finding new ways to teach, with a project-based curriculum that's mapped to the UN's Sustainable Development Goals.

TEDI-London is a testbed for the creativity of a new generation of designers and engineers. In alliance with our founding universities, our organisation is already changing up and getting ready for global growth to meet global challenges.

To do this, we need people. We need people who, no matter what their role, are ready to push the boundaries, fight for the best ideas and design creative solutions for everyone.

We're TEDI-London. Are you ready to join us?



WHY DO WE NEED TEDI-LONDON?

With a global shortage of engineers, attracting more people to the profession is paramount – particularly women and people from a variety of socioeconomic and cultural backgrounds to ensure equitable design solutions.

In the UK alone, it is estimated that an additional 50,000 engineers a year are needed to respond to 21st Century global challenges.

Research with employers and advocacy groups suggests that a highly interdisciplinary learning environment is required to respond to demand for engineers with a broader set of entrepreneurial, design and technology skills.

The curriculum for the TEDI-London programme develops skills in communication, entrepreneurialism and project management through a unique project-based and blended pedagogy, across a range of engineering disciplines.

By making things in project teams throughout their programme, our graduates will be able to tackle hands-on, complex, multi-disciplinary challenges.

Industry partners help to define and collaborate on projects and provide expertise and mentoring to ensure TEDI-London students have real-world experience of commercial and business reality.

OUR VISION We're transforming engineering education to transform lives - for the good of people, planet and prosperity.

OUR MISSION We exist to shake up engineering education. We provide engineering education and skills to more people, regardless of background, and help them build a better world for everyone.

ABOUT THE ROLE

This is an exciting opportunity for passionate engineering and design educators to join our dynamic team and deliver an innovative, inclusive curriculum. We seek candidates with expertise in modelling and simulation, sustainable technology, and environmental engineering, along with familiarity in immersive technologies like VR and AR. The role involves teaching ecological design, modelling and simulation, and digital design to undergraduates, with a preference for a research portfolio in Sustainable Technology.

Applicants should have a postgraduate qualification in Mechanical, Automotive, Aerospace, Civil Engineering, or a related discipline, or equivalent industry experience. A teaching qualification and higher education teaching experience are desirable, as well as experience in industry collaboration or research. Opportunities for knowledge exchange with industry partners will be available. As Assistant Professors, the focus is on teaching excellence, creating engaging, innovative learning experiences that drive student success both on campus and in person. They also contribute to high-quality research and professional practice that advances their subject and enriches their teaching.

OVERVIEW

Salary	£45,000-£55,000 inclusive of London Weighting
Hours of work	This role involves a typical 40-hour work week, with some flexibility depending on project needs. We actively encourage agile/flexible working in line with the delivery requirements of each of our roles. This role requires attendance at our Canada Water Campus at least 3 days a week.
Contract	Permanent. Applications for part-time (from 0.6) will also be considered.
Responsible to	Associate Dean of Academic Engagement and Partnerships
Start Date	01/07/2025

Key responsibilities

Learning and Teaching

- Deliver high quality teaching and facilitation at a range of levels using a variety of resources, technologies and innovative approaches to inspire and motivate student learning both online and in person.
- Develop and design teaching content that is informed by current (including own) research, practice and industry knowledge relevant to the field, and which develops the ability of students to engage in critical, rational and creative thinking.
- Collaborate with partners to co-develop and co-deliver real-life projects and curriculum components
- Assess students' work against learning objectives, monitoring progress and providing timely and effective feedback in line with TEDI-London quality standards.
- Provide pastoral and academic care of students, giving first line support and advice and referring to professional services as appropriate.
- Enhance own teaching practice through self-reflection drawing on feedback from a variety of sources to review effectiveness and implement improvements.
- Contribute to the review and improvement of teaching design and delivery, actively engaging in quality monitoring and enhancement processes.
- Lead a module of study, ensuring delivery to plan and to the required performance and quality standards, including attendance at exam boards.
-

Research, Scholarship and/or Practice

- Engage in research and scholarly and/or practice activity that results in high quality outputs such as academic publications, authorship of articles, chapters, reports, textbooks, performances, conference presentations, or exhibiting at external events.
- Contribute to the dissemination and/or promotion of these outputs to advance knowledge in the field and/or enhance the university's reputation, using a range of activities and external platforms.

- Contribute to the preparation of proposals and applications to win support (including internal finance) or to secure funding from external sources.

-

Knowledge Exchange and External Engagement

- Develop networks and partnership working for mutually beneficial knowledge exchange, practice and innovation sharing.
- Apply knowledge acquired from research and practice to external activities and engagement.

Academic Citizenship

- Engage in and contribute to the full range of department projects and activities such as recruitment and admissions, open days, degree shows, induction, marketing, external exhibitions, schools and colleges outreach and liaison.
- Develop productive working relationships within and across teams, and contribute to decision making at relevant meetings and committees.
- Participate in on going professional development, maintaining requirements for professional registration, and engage in the TEDI-London's Performance & Development Review (PDR).
- Support and champion equity of treatment and opportunity, promote a safe and healthy place to work and study.
- Undertake any other duties which fall within the remit of this post and in agreement with line management.

Person Specification:

E = Essential criteria

D = Desirable criteria

Please ensure that you clearly demonstrate how you meet each of the essential criteria in your application. If you are successful you will be required to undergo an Enhanced DBS check for this role.

Qualifications / Professional membership		
1	Qualified to postgraduate degree level in Mechanical, Automotive Aerospace, Civil Engineering a subject relevant to this post. OR If from a professional practice/industry background, a qualification equivalent to degree level (or above) in a subject relevant to this post together with professional/industry experience.	E
2	PG Certificate in Learning and Teaching in HE, academic professional apprenticeship, or equivalent qualification or expectation to achieve this within 2 years of appointment.	E
3	Fellowship of HEA aligned to Descriptor 2 of the UKPFS or expectation to achieve this within 2 years of appointment.	E
4	Have Chartered Engineer (CEng) status or expectation to achieve this within 2 years of appointment.	E
Learning and Teaching		
5	Possesses in depth knowledge of academic theory and/or practice in a relevant discipline in the following areas: modelling and simulation, Sustainable Technology and Environmental Engineering.	E
6	Experience in project-based learning methods within a further or higher educational setting; OR If from a professional practice/industry background, within an industrial setting.	E
7	Experience of engineering education and innovative curriculum development, including assessment and feedback.	E
8	Successful teaching experience both online and in person.	E
9	Ability to teach diverse student cohorts.	E
10	Facilitation and team development expertise in higher education.	D
11	Contribution to programme validation, accreditation, and quality assurance.	D
Research, Scholarship and/or Practice		
12	Ability to supervise undergraduate student projects/dissertations	E
13	Demonstrates research, scholarship and/or practice commitment and interests.	D
Knowledge Exchange and External Engagement		
14	Experience of developing effective networks and partnerships, recognising and creating opportunities for mutually beneficial collaborations	E

General

15	Strong written and verbal communication skills and influencing ability.	E
16	Demonstrable competency in providing student support – both academic and pastoral.	E
17	A willingness to be hands-on and involved in activities that may not be within the role on a day-to-day basis – essential in a start-up environment.	E
18	Collaborative and team-oriented approach across disciplines.	E
19	Ability to thrive in a fast-paced, ambiguous environment.	E

Core benefits, hours and work location

Holiday entitlement	28 days
Closure days	Additional 5 days (Christmas/New Year) plus identified statutory/ bank holiday days
Benefits	Employer pensions contribution up to 10% Life Insurance 4x Annual Salary Cycle to work scheme Travel season ticket loan Healthcare options Employee Assistance Programme and many other Perks at Work.
Hours of work and location	Typically 40 hours per week with some flexibility depending on business needs. We actively encourage agile/flexible working in line with the delivery requirements of each of our roles. This role requires attendance at our Canada Water Campus at least 3 days a week.

How to apply

Please send an updated CV to our agency who is handling our recruitment- Eloise Peters
eloise.peters@jss-search.com