



APPOINTMENT BRIEF

The Engineering & Design Institute London

Chief Operating Officer
Project Code MBIOA

Transforming Engineering Education:
Transforming Lives

TEDI LONDON
The Engineering
& Design Institute

Engineered by:

— Arizona State University
— King's College London
— UNSW Sydney

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The Engineering & Design Institute (TEDI-London) is brought to you by three global heavyweights in higher education: Arizona State University, King's College London, and UNSW Sydney.

TEDI-London was founded to address the critical shortage of engineers worldwide and enhance the quality of engineering graduates with the right mix of technical, social, and contextual skills to tackle the challenges of the Sustainable Development Goals and change people's lives. Targeting a more diverse cohort of students than traditional engineering degrees, TEDI-London aims to attract and empower socially aware and globally focussed engineers through its innovative, industry informed and project-based curriculum.

From its founding in 2019, through to starting up with an inaugural cohort in September 2021 and welcoming the second cohort in September 2022, TEDI-London continues to push boundaries and challenge the norms in engineering education.

We are now looking for a new Chief Operating Officer to join us at what is an exciting time on our journey as we begin to scale up and deliver our ambitious targets for growth and the achievement of our 2025 Strategic Plan. Reporting directly to the Dean & CEO, as COO you will be instrumental in continuing the work to shape and facilitate our strategic and business planning, programme management and risk framework.

In alignment with the TEDI-London's vision to transform engineering education to transform lives – both for students and the users of the products they design and make will be key for this role. As COO your leadership skills and enthusiasm for what we are trying to achieve will be pivotal to help secure our future success.

The people who work with us reflect our ambitions for our students. Continuous development and improvement are part of our DNA. We attract people who want to do things differently and take advantage of the opportunities in the world around them. If this sounds like you, we'd love to hear from you.

Best wishes,
Professor Judy Raper, CEO

WHAT IS TEDI-LONDON?

TEDI-London's vision is to transform engineering education to transform lives – both for students and for the users of the products they design and make.

TEDI-London is an innovative new higher education provider in London wholly focused on engineering. It is co-founded by Arizona State University, King's College London, and UNSW Sydney.

Our mission is to attract and empower individuals and partners from diverse backgrounds and perspectives to develop the skills and confidence to create practical real-world solutions that advance how we live as a global community. We will inspire, disrupt and transform.

TEDI-London is teaching engineering differently – traditional lectures are replaced with practical project work supported by a Virtual Learning Environment to develop the specialist skills needed to graduate as engineers. These projects are supported by mentoring and group work, and we collaborate with industry employers to design and deliver them.

The goal is to attract and empower a diverse cohort of capable students and give them the skills to solve contemporary challenges through a project-based learning programme.



WHY DO WE NEED TEDI-LONDON?

About 11% of engineering undergraduates in the UK are women, and the UK has the lowest percentage of female engineering professionals in Europe.

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 will be required to respond to demand for engineers with a broader set of entrepreneurial, design and technology skills. Our Industry Strategic Advisory Group comprises of senior leaders from across engineering and aligned sectors. The Industry Strategic Advisory Group share their knowledge, insights, and challenges to inform TEDI-London's education strategy and curriculum.

The curriculum for the TEDI-London programme develops skills in communication, entrepreneurialism, and project management through our unique pedagogy, alongside core engineering subjects. By making things in project teams throughout their programme, our graduates will be able to tackle hands-on, complex, multi-disciplinary challenges.



OUR PROPOSITION

At TEDI-London, students are treated as “professionals-in-training” and work in an environment that imitates the workplace from day one. Over 80% of the TEDI-London curriculum is assessed through projects. The remainder is based on a personal and professional portfolio, with students reflecting on their progression towards becoming a professional engineer, and an integrated examination applying learning from the course to a real-world industrial problem.

- A unique and global student experience jointly designed with employers and supported by our three founding universities.
- New professionally focused degrees that reflect community demand and industry needs.
- Our admissions criteria ensure students are selected for their ability, aptitude, and attitude to succeed. This approach will provide access for a new, diverse type of future engineer.
- An academically rigorous and continuously evolving curriculum that is interdisciplinary and career-oriented, designed to deliver a broader set of skills for engineers of the future. The goal is to produce graduates with technical, contextual, design and business skills.
- A student-led and immersive pedagogy. Projects are undertaken both individually and in groups, complemented by an interactive digital learning environment that allows our professionals in training to acquire knowledge and competency as they are needed.
- A culture in which students are trusted and empowered, and in which educators are coaches.



OUR PEDAGOGY

Projects

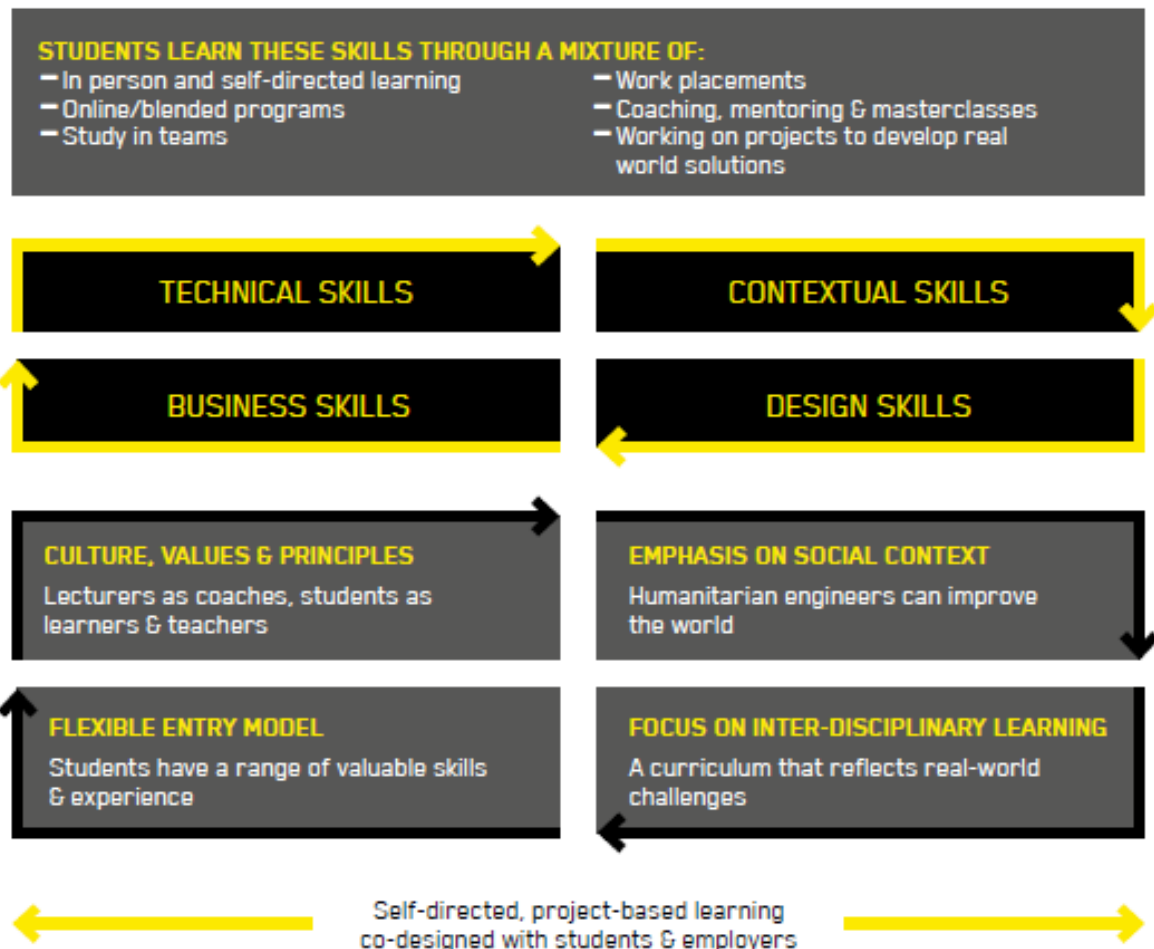
Professionals-in-training are involved in project work, both in teams and individually from the beginning. Learning outcomes from projects will include:

1. Teamwork
2. Design skills
3. Problem solving
4. Global context
5. Environmental Sustainability
6. Project management
7. Social and aesthetic awareness
8. Leadership
9. Critical thinking
10. Technical competence

Projects are structured to deliver several of these outcomes with emphasis on different aspects at different stages of the programme.

Digital Learning

In order to participate in, contribute and benefit from the project-based learning, professionals-in-training will also need to acquire the technical skills normally associated with engineering qualifications. This will be achieved through working collaboratively with each other and academic staff through self-directed digital learning materials. The digital learning material delivers a relevant, engaging and dynamic knowledge base to students through a series of packets of learning, all integrated on a "Teams" site associated with each project. This online content equips students with a solid foundation for the technical skills gained within their projects.



INDUSTRY PARTNERSHIPS

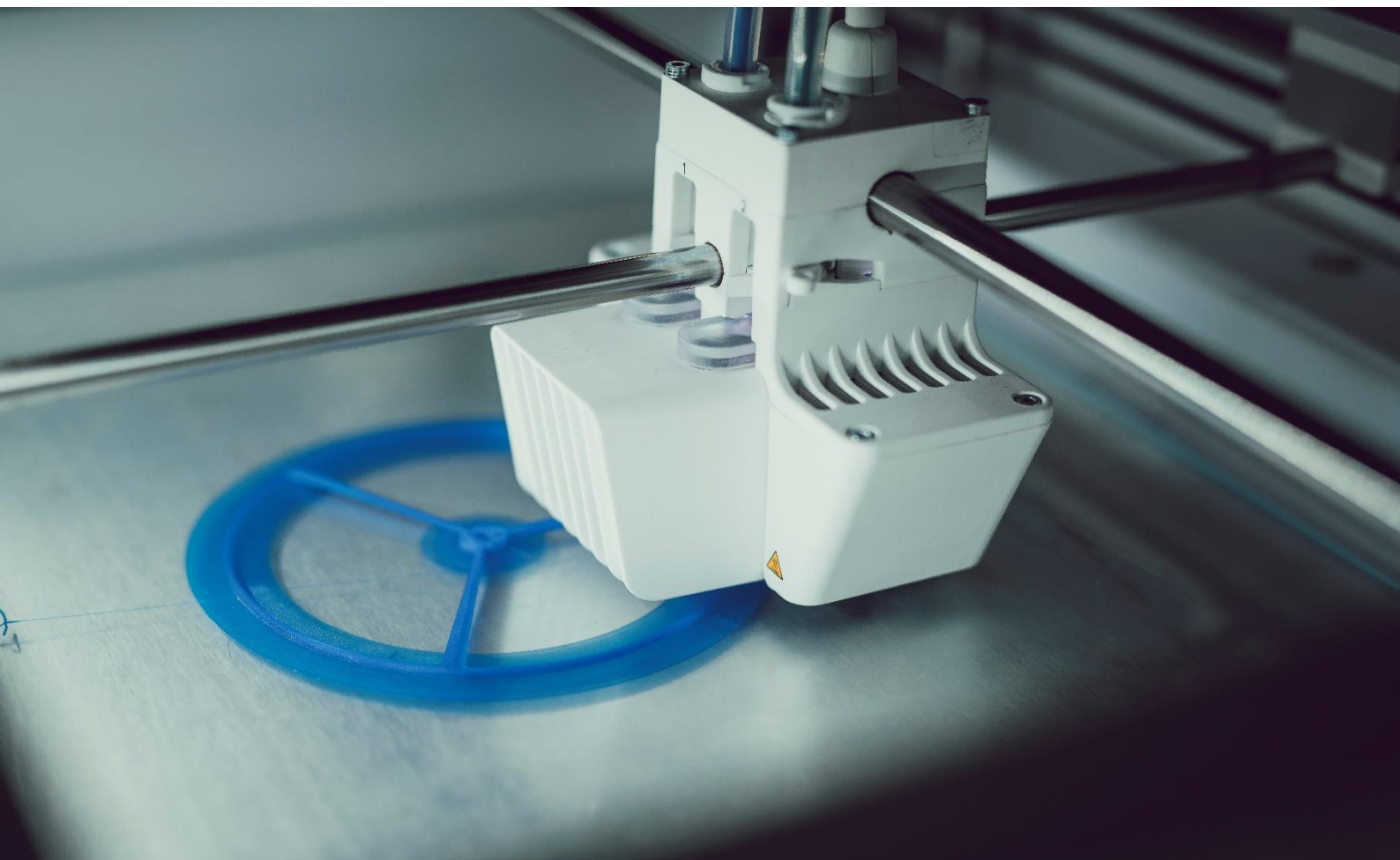
Industry partnerships

Partnerships with industry are empowering TEDI-London to be at the leading edge of technology and industrial change, and to attract bright, creative students from diverse backgrounds who share a passion for engineering. The partnerships directly improve lives – and inspire students and faculty to deliver the desired outcomes.

- Learning and teaching – industry partnerships facilitate a symbiotic relationship, whereby industry has a key role in the design, quality, and delivery of TEDI-London’s education programmes, and in return, TEDI-London responds to industry to maximise the relevance of the education offerings and hence the graduate outcomes.
- Graduate employment – industry partners have regular engagement with our students throughout their studies, get first access to our graduates, and over time, to a growing global network of individuals with these unique skills and qualifications.

TEDI-London aims to be:

- Relevant, in terms of programme offerings and training, by being responsive to the relationships between public policy and the economic environments in which industry operates.
- Customer-focused, where education through a project-based learning programme is customised, and responses are timely and well-coordinated.
- Supportive to industry to innovate and improve global society.



OUR VALUES

- Inclusive
- Courageous
- Inspiring
- Innovative
- Collaborative
- With Integrity

Our values underpin our ethical focus and approach to decision making. You will be able to role model and champion these values along with all staff within TEDI-London, providing challenge and open discussion to ensure we do so all the time.



ABOUT THE ROLE OF CHIEF OPERATING OFFICER

Hours of work	Nominal weekly hours 35. We actively encourage agile/flexible working in line with the requirements of all our roles.
Responsible for	Head of Finance; People Partner; Head of Technology; Head of Facilities, Health & Safety; Planning & Organisational Performance
Responsible to	Dean & CEO
Primary place of work	Canada Water, London
Salary	Circa €100k Inclusive of London Weighting

Reporting directly to the Dean & CEO, the Chief Operating Officer has wide-ranging strategic and operational responsibilities. Leading a team of skilled professionals within their own disciplines, you will be instrumental in continuing the work to shape and facilitate our strategic and business planning, programme management and risk framework. This role is part of the Strategic Leadership Team of TEDI-London.

With strong, collaborative leadership, you will be a key part of the ongoing development of our organisation as we grow and scale up operations for increased student numbers. We aim to be disruptive and innovative in the way we deliver our engineering curriculum to our students and this approach is embedded in all our functions.

A key element of your role will be to drive forward TEDI-London's financial strategy and ensure that our operational resources are configured efficiently and effectively to support the delivery of organisation success and our Strategic Plan. Therefore, you will have experience of working at a strategic level, whilst holding a senior finance position in an organisation, with responsibility for the leadership and development of teams.

There are huge ambitions within local government and community interest groups for the area of Canada Water over the next 70 years. A significant project requiring your leadership will be the ongoing development and expansion of our TEDI-London campus in conjunction with our key industry partner, British Land. The design of our campus, campus funding, space planning and general facilities provision to our students involves considerable expertise and focus as well as the effective management of stakeholders.

Our values underpin our developing culture, ethical focus and approach to decision making. You will be a role model and champion these values, along with all staff within TEDI-London, providing challenge and facilitating open discussion to ensure a dynamic and collaborative culture.

You will be:

- Passionate about higher education and the delivery of an outstanding student experience.
- Kind, thoughtful and highly communicative, both as an individual and in your professional leadership role.
- A team player able to foster a collaborative and collegial culture and to support the broad number of functions comprising the operations team.

Key responsibilities:

- Lead the ongoing development and monitoring of our overall strategic framework including the Strategic Plan, Budget, KPIs and underlying core business strategies. This will include programme management and risk identification and mitigation.
- Leading the operational portfolios encompassing Finance; HR; IT; Facilities, Health & Safety; Strategic Planning, Programme Management and Risk.
- Creating an environment of open discussion, solution development and support within the leadership and wider team.
- Campus Development:
 - Leading and managing the ongoing development of the physical campus, campus operations, policies and compliance requirements.
 - Overseeing Campus project management including fostering productive relationships with our campus consultants and with British Land.
 - Working with the team and potentially other users of the site to consider shared services and the effective management of contracted services as appropriate.
- Provide sponsorship and role modelling for our approach to diversity and inclusion, our values and our approach to dignity at work.
- Oversee effective budget management, including financial forecasting, partner funding drawdown models, student number planning and scenario modelling to endeavour to keep TEDI-London within our funding envelope over the planned period.
- Oversee the ongoing development of our Digital Strategy for IT and the move to a business-as-usual model which enables a seamless IT experience for staff and students. Ensure that key IT systems such as the Student Record System and the Virtual Learning Environment are continually developed and effectively support our business-as-usual activity.
- Oversee legal and compliance activities across the organisation.
- Responsible for other functions and responsibilities which may be assigned to the Chief Operating Officer either short or longer term in line with changing needs of the business.

ABOUT YOU

Skills and experience:

- A qualified accountant (ACCA, CIMA, CIPFA, ICAEW or equivalent)
- Experience within a new start up organisation or/ significant new development project an advantage.
- Senior management and leadership experience (exposure to HE environment and operations would be beneficial in delivering this role but not essential).
- Strong communication, influencing, consensus building and stakeholder management skills.
- A good understanding of operational business functions such as strategic planning and performance measurement, People, Finance, IT, Risk, Compliance and Facilities (including Health & Safety).

- Demonstrable competency in strategic business planning and business operations development.
- Experience in the management of complex projects and problem solving including identifying and mitigating risk. (Our approach is not to be risk averse but to manage risk within an agreed framework).
- Board level exposure and governance experience, committee management, and policy and compliance awareness to foster informed decision-making.

Personal Attributes:

- Consistent, supportive, and empowering leadership especially under pressure.
- Highly self-motivated, creative, and solution focussed.
- Ability to create an environment which embraces a number of perspectives and to bring new and unique thinking to a situation.
- Collaborative and consultative approach to decision making and problem solving which incorporates the skills and capabilities of the wider team.
- Flexible and agile mindset to help shape our programme of work and achieve desired outcomes.
- Ability to see both the big picture and to pay attention to detail.
- Willing and able to be hands-on and involved in activities that may not be within your role on a day-to-day basis.
- A passion for education, team building and new ways of working across organisations.

Desirable

- General interest in/ understanding of higher education operations in the UK.



HOW TO APPLY

Saxton Bampfylde Ltd is acting as an employment agency advisor to The Engineering & Design Institute London on this appointment.

Candidates should apply for this role through the website at www.saxbam.com/appointments, using code **MBIOA**.

Click on the 'apply' button and follow the instructions to upload a CV and cover letter. The closing date for applications is noon Monday 22 May 2023.

If you are unable to apply through the website, please email belinda.beck@saxbam.com quoting reference **MBIOA**.



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