



SENIOR  
TEACHING  
FELLOWS/  
TEACHING  
FELLOWS

# TEDI-LONDON

Transforming engineering education:  
transforming lives

**TEDI** LONDON

Engineered by:

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

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# THANK YOU FOR YOUR INTEREST IN WORKING WITH TEDI-LONDON.

The people who work with us reflect our ambitions for our students. We are keen to attract potential candidates who are creative and innovative, curious and passionate about what we are trying to achieve.

You will want to try new things and not be afraid to learn from the experience. You will want the opportunity to combine strategic thinking with hands-on operations.

You will want to collaborate with colleagues – both locally and globally. Continuous development and improvement are part of your DNA.

You will be able to actively demonstrate a passion for great teaching and inspire a new generation of engineers. You want to pass on your passion, learn new skills and face new challenges in a working environment and community that inspires and motivates you. Team members at TEDI-London relish the opportunity to design and develop their roles, within function and across the organisation, challenging themselves to dare to be different.

You will have a drive to be part of something we believe is unique. You have always wanted to do things differently but the size of your organisation, history or internal politics mean you may not have been able to make the necessary changes quickly to take advantage of developments in the world around you.

We have developed an employer proposition and values our team members have co-created. You can be part of shaping our culture and our future.

All our employees are of equal value and status, whatever role you do.

Our values are equally as important to us and underpin our decision making and ways of working.

If you think this sounds like you and what you might be looking for, we would love to hear from you.

Best wishes,

**Judy Raper**, CEO



## WHAT IS TEDI-LONDON?

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.

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.

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 will teach engineering differently - traditional lectures will be replaced with practical project work supported by an online 'Learning Tree' to develop the specialist skills needed to graduate as engineers. These projects will be real-life industry challenges and will be co-designed and delivered with support from employers. The projects will be supported by one to one mentoring and group work.

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?

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.

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.

Industry partners will also be invited to co-design projects and provide coaching and mentoring to ensure TEDI-London students have real-world experience of commercial and business reality.

# OUR PROPOSITION

The curriculum will be unique in the UK, with total flexibility according to student needs. Students will be “professionals-in-training” and will be treated as professionals from Day one. The TEDI-London curriculum is over 80% project-based learning. 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.

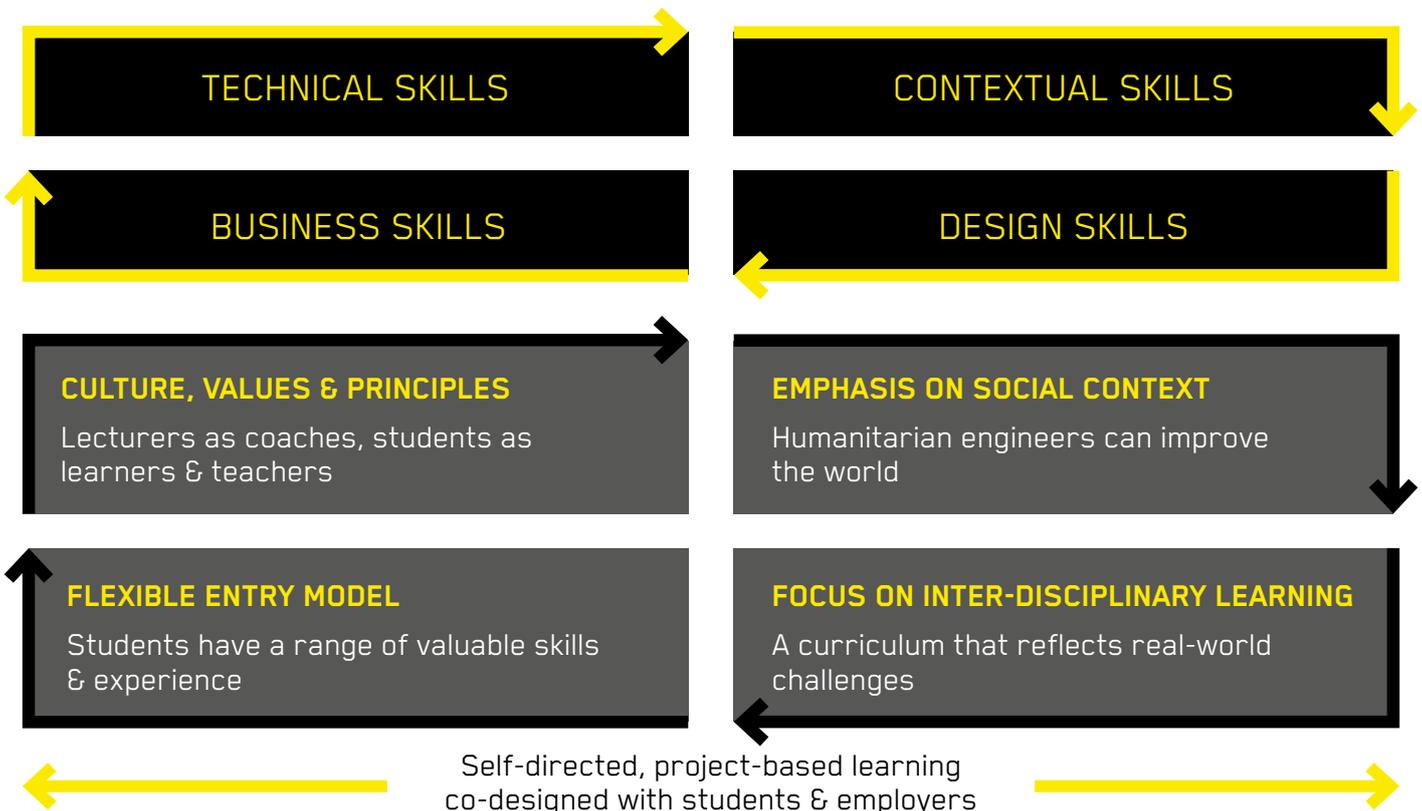
- A unique and global student experience jointly designed with employers and supported by our three founding universities.
- New professionally focused degrees that reflect community demand and industry needs.
- The courses can be studied via a standard and - where appropriate - an accelerated master’s route. Students will be offered the opportunity to accelerate after the second

term, once they have proven their aptitude to study an accelerated programme.

- Our admissions criteria ensures 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 that features over 80% project-based learning, both individually and in groups, complemented by an interactive Learning Tree 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.

## STUDENTS LEARN THESE SKILLS THROUGH A MIXTURE OF:

- Project-based learning
- Online/blended programs
- Study in teams
- Work placements
- Coaching, mentoring & masterclasses
- Producing real world solutions





## OUR PEDAGOGY

### **(a) Projects**

Professionals-in-training will be 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

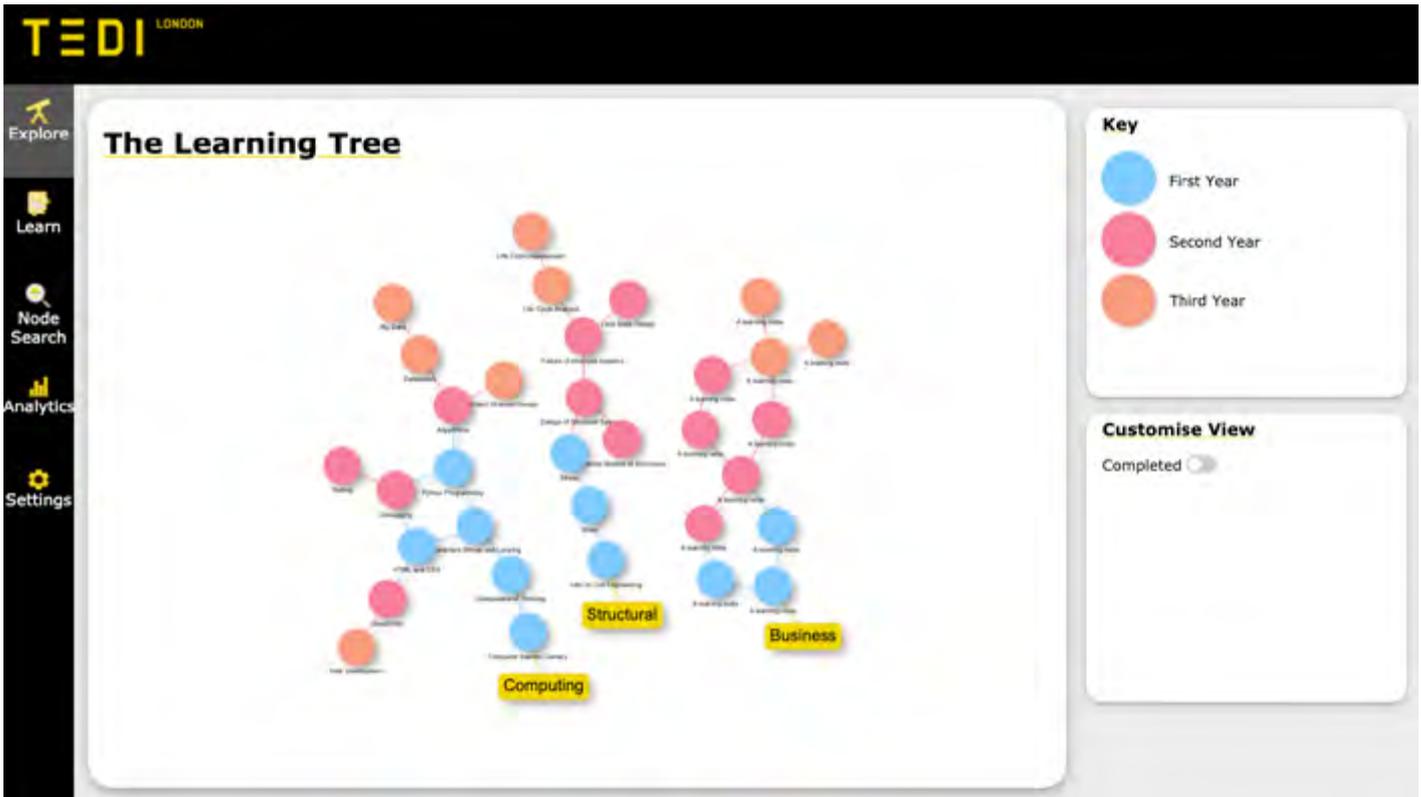
Projects will be structured to deliver several of these outcomes with emphasis on different aspects at different stages of the programme. Some students, who

are capable are invited to accelerate the programme and complete their master's degree in three years. Students may come in and out of these projects, taking different roles within the project group at different stages of their programme.

### **(b) Learning Tree**

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 associate with engineering qualifications. This will be achieved through individual, self-paced online study through the Learning Tree. The Learning Tree delivers a relevant, engaging and dynamic knowledge base to students through a series of packets of learning – our nodes. A node is a 3-hour block of online interactive, response content that equips students with a solid foundation for the technical skills gained within their projects.

# OUR PEDAGOGY



Above is an example Learning Tree – which shows the general concept, but not the specific curriculum. Students will have a mixture of compulsory and optional nodes, so there are many more nodes than are required to complete the degree.

The degree offered is Engineering, so the tree will contain branches related to all the traditional engineering disciplines without covering the detail of a specialised degree. Additional branches will relate to design thinking, leadership, financial management and economics as well as social sciences and philosophy which will be available for every student. Ethics and its study will be interwoven in the courses and in the projects.

## Industry partnerships

Partnerships with industry will empower TEDILONDON 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 will directly improve lives – and inspire students and faculty to deliver the desired outcomes.

These value-adding partnerships will support the delivery of two core services:

- Learning and teaching – industry partnerships will facilitate a symbiotic relationship, whereby industry has a key role in the design, quality and delivery of TEDILONDON’s education programmes, and in return, TEDILONDON responds to industry to maximise the relevance of the education offerings and hence the graduate outcomes.
- Graduate employment – industry partners will 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 will aim to be:

- Relevant, in terms of programme offerings, research 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 programmes are customised and responses are timely and well-coordinated.
- Support industry to innovate and improve global society.

# TEDI-LONDON

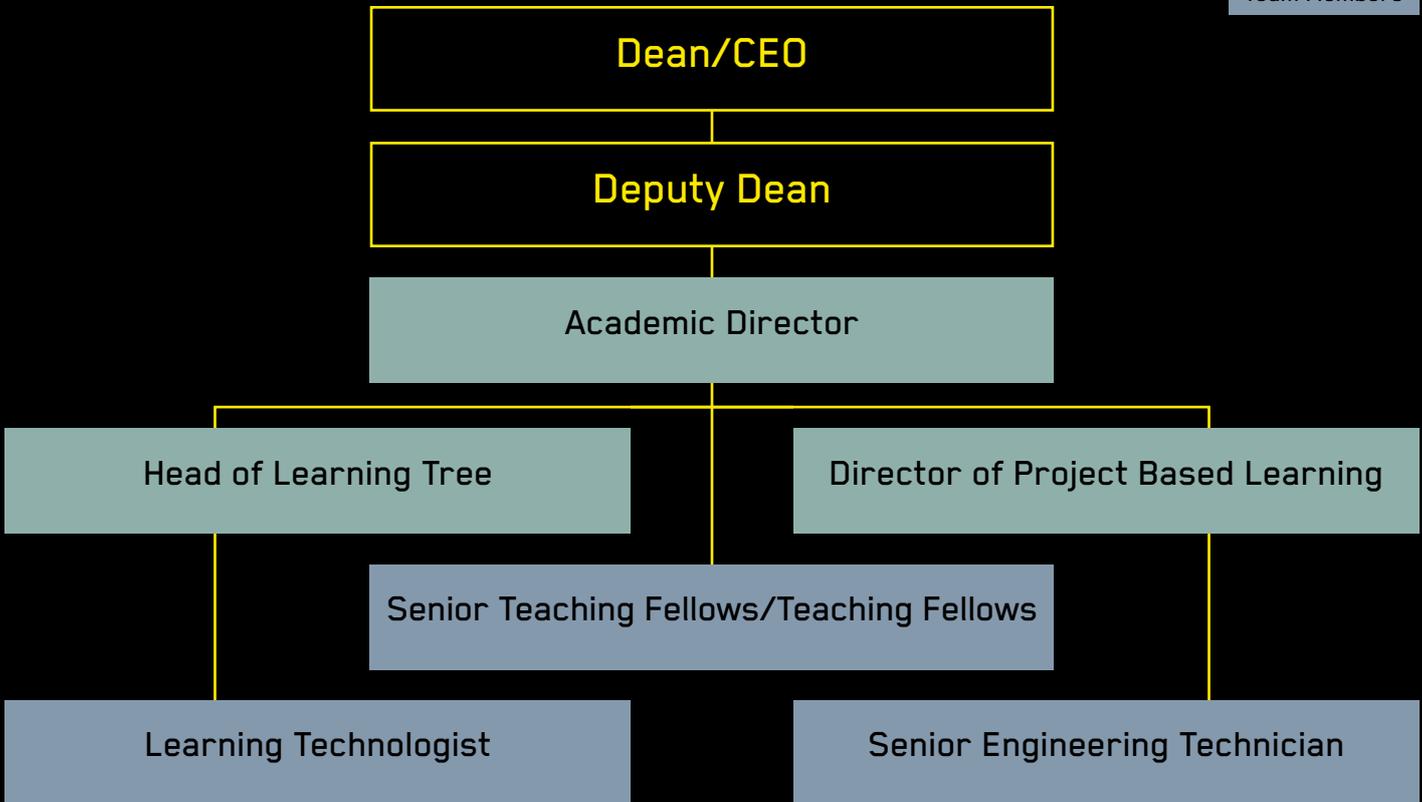
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Key

Executive

Leadership  
Team

TEDI-London  
Team Members



## 2 X SENIOR TEACHING FELLOWS/ TEACHING FELLOWS

Salary	£45,000 - £65,000 FTE dependent on experience, inclusive of London Weighting.
Hours of work	Nominal 35 weekly hours. We offer agile working in line with the delivery requirements of all our roles.
Contract	2 x Permanent roles in the areas of: Civil Engineering and Computing / Big Data
Responsible to	Academic Director
Primary place of work	Canada Water

## OUR VALUES

- Inclusive
- Collaborative
- Inspiring
- Courageous
- Integrity

Our values underpin our developing culture, 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 of the time.

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# ABOUT THE ROLE OF SENIOR TEACHING FELLOW/ TEACHING FELLOW

## What are we looking for?

This is an exciting opportunity for passionate engineering educators with a background in either **civil engineering** or **computing/big data** who relish the opportunity to join our academic team in delivering an innovative, relevant and inclusive curriculum. Traditional lectures will be replaced by project work, supported by our unique Learning Tree – a key component of our bespoke Virtual Learning Environment. The vast majority of our learning outcomes will be achieved through these real-life projects which will be designed and co-delivered with industry partners. Our academics will act as coaches and mentors, facilitating master classes, pop-up tutorials and workshops.

The curriculum you deliver will attract and empower a diverse cohort of capable students, providing them with the skills to solve complex contemporary challenges through a flexible, project-based learning programme.

## You will be instrumental in:

- Facilitating the learning of our students through creating a vibrant learning environment and demonstrating your passion for engineering education.
- Ensuring the learning outcomes of our programmes are understood and delivered
- Maintaining the standards required for innovative, inclusive, high quality programmes.
- Developing and implementing new and emerging approaches to higher education.
- Leading and participating in workshops and tutorials.
- Coaching students, including impromptu learning opportunities, ensuring you proactively meet student learning needs.
- Using your well-developed digital skills to create engaging, interactive content for our Learning Tree.
- Setting and marking student assessment.
- Providing pastoral support to students and relevant signposting.
- Participating in open days, visit days and outreach activities, including but not restricted to: the setting up & dismantling of events, giving demonstrations and acting as a TEDI-London ambassador giving help and guidance as appropriate.
- Promoting TEDI-London locally, regionally, nationally and internationally – participating in e.g., conferences, subject interest groups, industry events and professional body activities.



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# ABOUT YOU – SKILLS, EXPERIENCE, QUALIFICATIONS

For these roles, you will have:

## Skills and Knowledge

- A passion for engineering education and for identifying new and innovative approaches of impactful delivery with the ability to embed these into the curriculum.
- A demonstrable track record of delivering engineering higher education in the areas of either civil engineering or computing/big data.
- Successful experience of teaching – using online and innovative methods.
- The ability to teach a diverse cohort of students with a broad range of backgrounds.
- Experience of project-based learning – with an understanding of sustainable development goals and social awareness.
- The ability to contribute to programme validation, accreditation and/or quality assurance.
- Demonstrable competency in providing student support – both academic and pastoral.
- Excellent communication skills – written and verbal – combined with excellent influencing skills.
- 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.
- A collaborative approach combined with excellent team working skills, within and across other disciplines and functions.
- The ability to thrive in a fast-paced, vibrant environment with a high level of ambiguity – working across a number of activities concurrently whilst maintaining poise, pace and control.

## Qualifications/ Professional Memberships

- A first degree and a PhD (or equivalent).
- Membership of professional engineering body and/or impactful role within an external organisation related to engineering.
- Fellowship of the HEA or working towards

# HOW TO APPLY

Please apply by clicking ‘Apply Now’ where you will be guided to send your CV and a supporting statement explaining how you meet the essential criteria in the person specification.

TEDI-London is a teaching and learning organisation, research is not a specific element of this role.

This role closes at 23:59 GMT on Sunday 18th April 2021. To enable you to learn more about this position, we have recorded an interview with the Recruiting Manager [here](#).

Separately, we have organised an online opportunity for potential candidates to meet the Line Manager, our new Academic Director and the [Recruiting Manager](#), to answer any questions you may have about this role before applying. This event is not mandatory and does not count as part of the recruitment process. You can register for this event [here](#). Shortlisting will take place on the week commencing 19th April 2021. Interviews will take place in mid-May 2021 (w/c 10th May). Successful applicants will require an enhanced DBS check.



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# TERMS AND CONDITIONS OF EMPLOYMENT

## PRINCIPLES:

- Single-status: all levels and roles to be offered the same terms and conditions (other than salary).
- No annual pay increments structure – based on performance throughout the year, cost of living, market rates and potential impact on diversity and inclusion.
- The health, wellbeing and ongoing engagement of our people is key.
- Reinforce our values and developing culture including agile/flexible working for all roles: we are focused on delivery and outcomes achieved through mutual trust, respect and empowerment.
- Competitive with other University and commercial offerings.

### Core terms

Working days per annum	260
Holiday entitlement	28 days
Closure days	Additional 5 days (Christmas/New Year) plus identified statutory/ bank holiday days
Buying holiday	Up to 10 days may be bought, 5 days maximum may be sold
Holiday year runs	1 January – 31 December each year
Notice periods:	1 – 3 months depending on role
Pension incl. life insurance and permanent health insurance	Employer contribution up to 10% Life Insurance 4x Annual Salary
Hours of work per week	35 hours, a standard day is 7 hours. There may be a requirement for evening or weekend working for identified roles.

## Work life/time off

Occupational Maternity pay/Adoption pay scheme/Shared parental leave	16 weeks full pay after one years service (top up to statutory entitlements)
<b>Other time off:</b>	
Development days	Up to 2 weeks paid per calendar year
Compassionate/special leave/time off for dependents	
Partner/Paternity Leave	2 weeks full pay
Community engagement days (CSR)	Up to 5 working days in line with TEDI-London overarching objectives

## Wellbeing and Engagement

Occupational Health services	Yes, as required. Paid Annual wellbeing checks on request.
Employee Assistance Programme	Yes, as required
Discounted products/services	Yes
Dental/medical appointments	Paid time off
Occupational Sick Pay Scheme*	Paid
Private Healthcare Services	Available
Cycle to work scheme	Yes
Season ticket interest free loan	Yes

## \*Occupational Sick Pay Scheme

1 month - Up to 1 years service	3 months full pay
1 to 3 years service	3 months full pay, 3 months half pay
3 years plus service	6 months full pay, six months half pay

