











Agenda



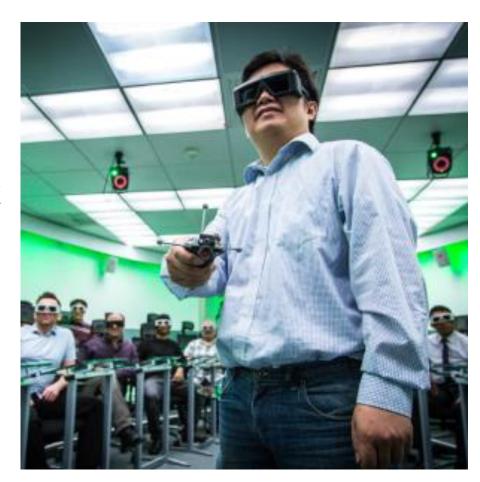
/ 9.30am - 9.45am - Introduction and About Collaborative R+D

 Richard Magennis, Business Engagement Manager - Business Innovation Services at UoS

/ 9.45am – 10.15am – Making your business idea a reality

- Dr. Imrana Mushtaq Knowledge Transfer Advisor, InnovateUK
- Dr. Alejandro Garcia-Miranda Ferrari Collaborative R+D Manager, UoS
- / 10.15am 10.35am How does it work for the business?
- Konstantinos Zeimpekis Lead Data Scientist, Vue Group
- / 10.35am 10.45am Tax R&D credits
- Chris Cunnane Business Development Manager, BSE

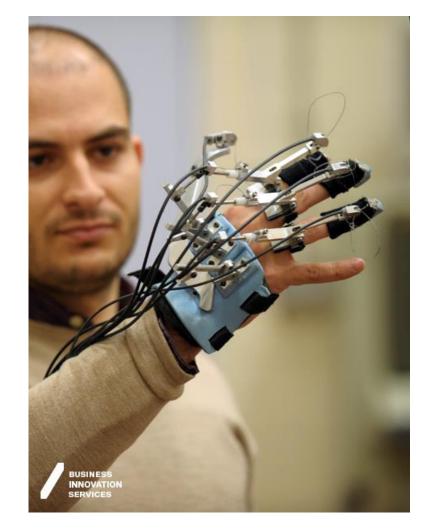
/ 10.45am - 10.55am - Q&A session



Aims of the morning



- / Myth-busting working with a university
- / Local economic growth
- / Power of partnerships
- / Provide information to local stakeholders
- / Ensure that our research is being used for common good
- / Introduce you to some key sources of information
- / Proof that obtaining funding isn't impossible
- / Showcase our delicious bakery





Why work with Salford?



- / Industry and social justice focus at the heart of the university
- / Access to the latest research and some creative minds
- / A key part of the Greater Manchester innovation ecosystem
- / Always what's best for the company
- / Give experience to young professionals
- / Access the most suitable funding streams for your project
- / Ability to pull together different knowledge areas for a solution





Why work with Salford?



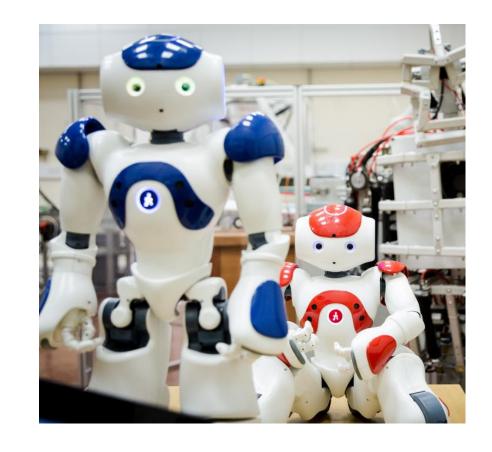
/ Industry and social justice focus at the heart of the university

/ Over 60 years' experience delivering collaborative partnerships

/ Over 13,000 projects delivered with non-academic partners over the past ten years

/ Our Knowledge Transfer Partnerships have generated a projected return on investment of over 600%

/ 1 in 7 of our full-time PhD students are part of our industry PhD scheme





Innovation across the UK

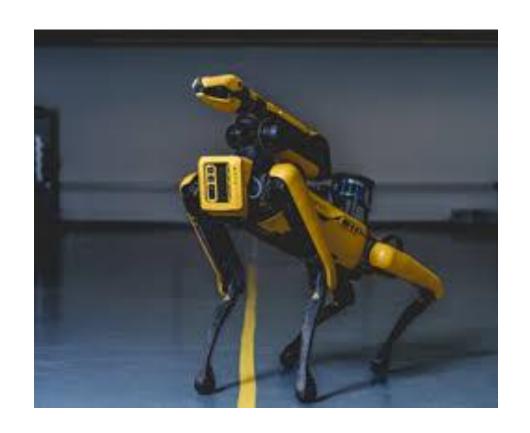


/ 2020-22 - 36% of UK businesses active in innovation

- 36% SMEs
- 50% Large businesses
- / Decrease from 2018-20 45%
- / Main drivers of innovation were:
- Improving quality of good and services
- Meeting regulatory requirements
- Replacing outdated products and services
- Upgrading and changing processes

(UK Government, 2024)





Why Collaborative R+D?

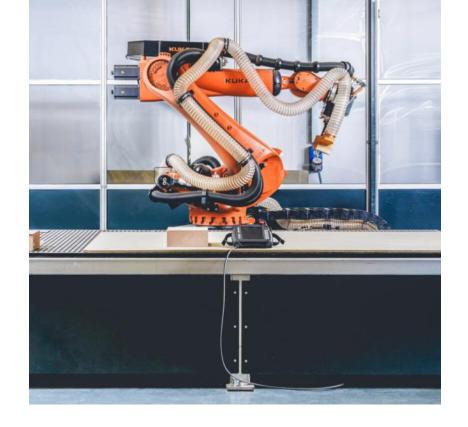


Some barriers to innovation:

- / Short-term thinking
- / Mindset (in general or in leadership)
- / Fear of upsetting the status quo
- / Fear of failure

Benefits of innovation:

- / Increased adaptability
- / Growth
- / Competitiveness
- / Productivity
- / Market relevance and future-proofing
- / Positive change and mindset
- / Empirically driven change



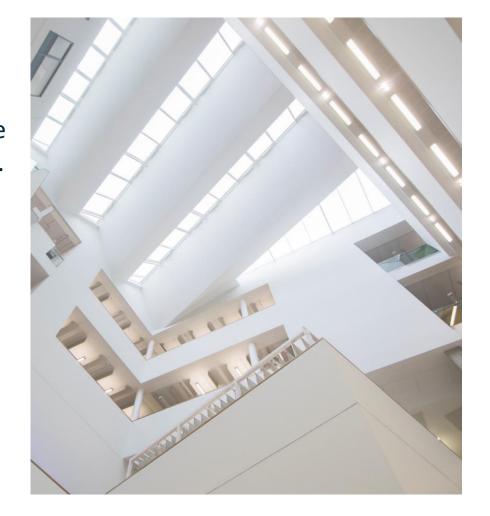


Business Innovation Services



Our main aims:

- / Grow the local and regional economy
- / Support businesses to transform their operations through the implementation of new innovative technologies and processes.
- / Drive positive change in industry
- / Connect businesses to the right support across Greater Manchester
- / Act as a platform for new and emerging business and sectors
- / Lead via a collaborative, co-creative challenge-led approach, helping to create sustainable business for the future.



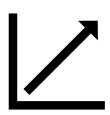


Mission and purpose





Develop new products and services



Identify new growth opportunities



Test and trial ideas and products



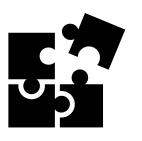
Support you on your journey to net zero



Help you access funding for R+D



Deliver bespoke professional training



Develop solutions to business problems



Conduct Research



innovation@salford.ac.uk

Supporting businesses together at different stages of their journey





Ideation / proof of concept / prototyping for a new innovative project



Development of a new product or service which use emerging technologies



Transformation of existing products or service to remain competitive



Embedding a new technology into existing processes and operations



Commercialisation of your innovation and taking it to market



GM Ecosystem



























Collaborative R&D Team

Dr Alex Garcia-Miranda Ferrari CSci MRSC

Collaborative R&D Manager; Research Knowledge & Enterprise

A.Garcia-Miranda.Ferrari@salford.ac.uk







Agenda

- Funding Development at UoS
- Collaborative R&D
- Types of funding
- What could be next?
- Support provided

Key Industry Pillars

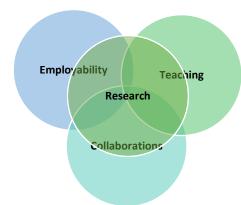






Built Environment and Green Growth Sectors

Business Innovation & Growth



Tailored approach drawing on expertise from our different knowledge areas



Advanced Materials and Manufacturing Sector



Funding Development



The CRD team is part of the wider Funding Development Team.

We are experts in research planning, collaborative R&D and research communications. We are here to help you navigate the external funding landscape by developing strategies for upscaling research ideas into successful projects that deliver meaningful impact...







Funding Development



Collaborative

R&D

Fellowships and Grants Academy



RKE Communications
Support

- Work with industrial partners on long-term strategies
- Provide writing support on applications
- Project manage grant applications

Who is the CRD team?

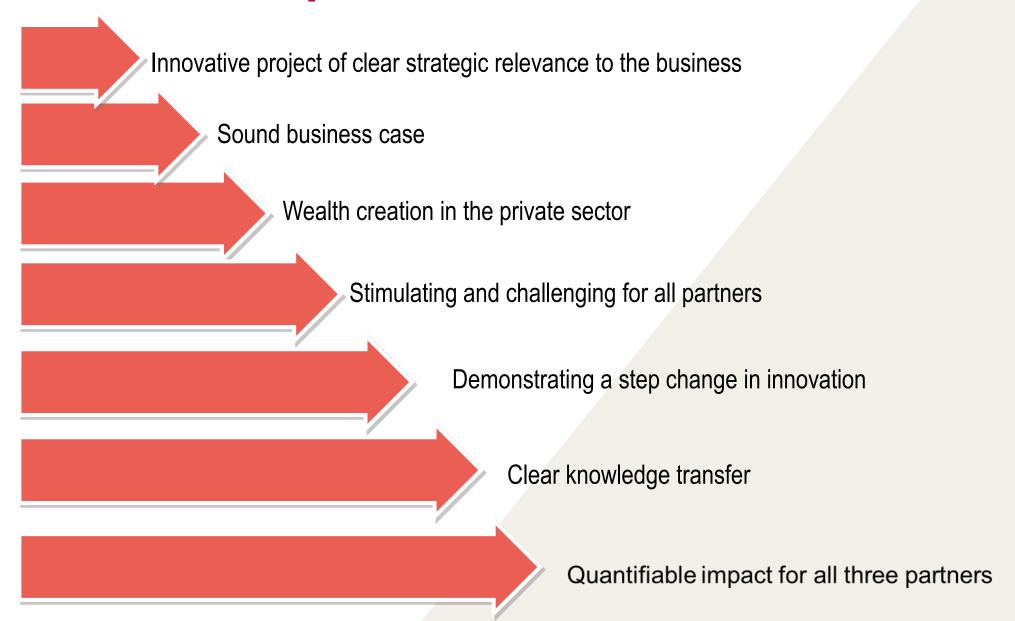




- Bring academics and industry partners together to deliver knowledge transfer projects
- Support the development of collaborative applications to funders such as Innovate UK
- Provide project management support

What do we provide?





What could be next?



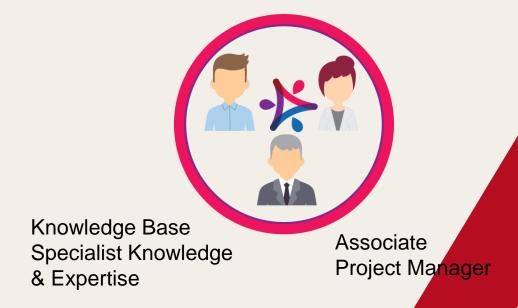
Knowledge Transfer Partnerships



KTPs are a three-way partnership to create and embed new capabilities into businesses so they can achieve their strategic objectives, transform their business and deliver substantial financial returns.



Business Strategic plans for growth



3-way partnership

What are Knowledge Transfer Partnerships (KTPs) by Innovate UK?



KTPs *create* and *embed* new capabilities into businesses so they can achieve their strategic objectives, transform their business and deliver substantial *financial returns*.



786 nationally active projects (10 at UoS)



700+ businesses (80+% of closer collaborations after)



£200m+ currently invested



£5 returned per £1 invested



Company driven partnership with an academic team



Strategic Projects 12 - 36 Months



Funding 67% SME 50% Large



Any Business Any Size



Full-time Associate (graduate) Project Manager



Associate based at business, employed by the HEI



Joint Supervision



Academic time 10%

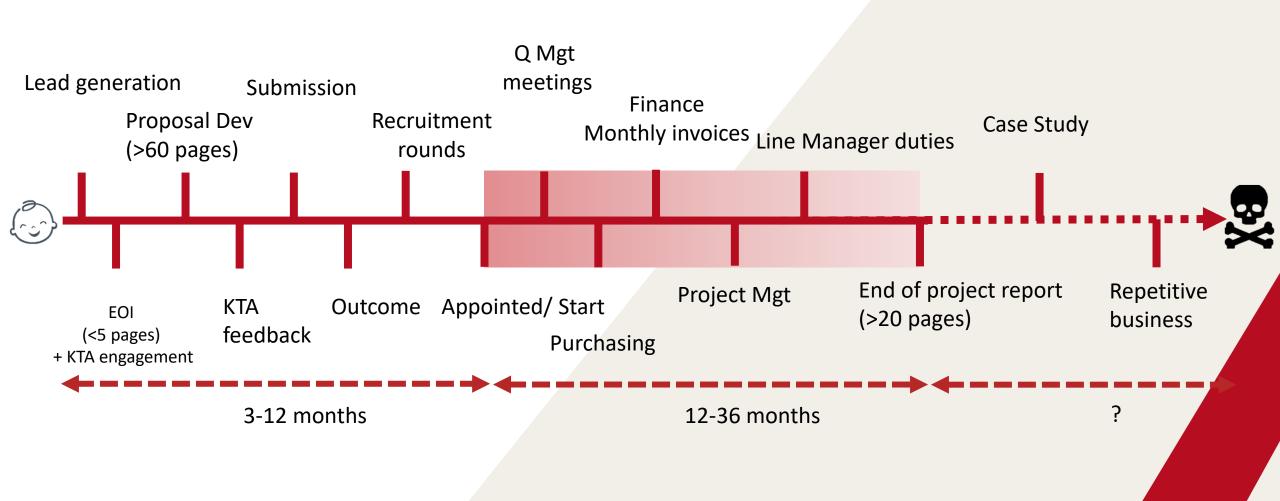


often go on to be employed by Business Technology Readiness Level (TRL) from 3 to 6 (inc. feasibility, prototype dev to bring closer to market at scale demonstration)

Evaluation Process: impact, innovation, challenge and cohesiveness

CRD; End-to-end approach





What could be next?

 For more information on how to collaborate with us:

Collaborative R&D | University of Salford



 For more information on our latest updates: Business Innovation Services at Salford: Posts | LinkedIn

For more information on KTPs:





Knowledge Transfer Partnerships - YouTube

Collaborative R&D









a.garcia-mirandaferrari@salford.ac.uk





Knowledge Transfer Partnerships

Dr Imrana Mushtaq 30th October 2024



Innovate UK Business Connect

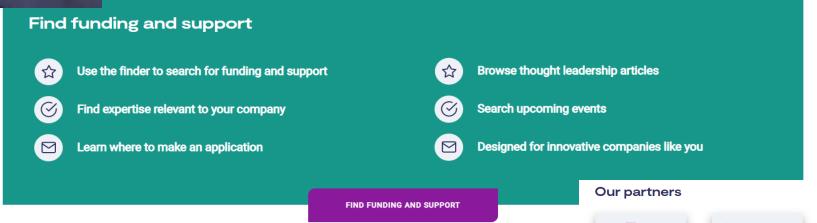
Innovate UK KTN exists to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.



<u>Innovation Hub – Connecting businesses to funding and support (ukri.org)</u>



All government business innovation support in one place, summarised and easy to find, to save you time and effort



https://ukinnovationhub.ukri.org





bsi.

Intellectual Property Office

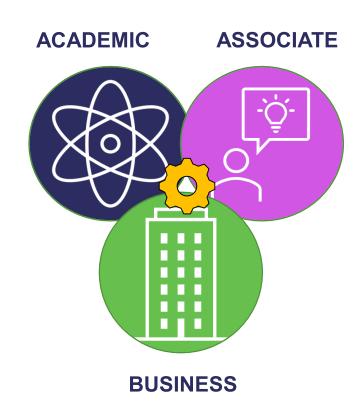
Introducing Knowledge Transfer Partnerships (KTP)

KTP is:

A **three-way partnership** that provides

- expertise to innovate
- funding to enable
- resource to deliver transformational positive change

This change can be economic, societal or environmental





Profile of a KTP Project



Any size, any sector including virtual UK based business & third sector

- Classic KTP
- Management KTP
- Public Sector mKTPs



Any subject that is innovative, business-led, strategically relevant

Demonstrates:

- Innovation
- Commercial impact
- Embedded capability
- Knowledge transfer



Delivers quantifiable benefits for all three
partners

Creates economic, societal & environmental impact



Early-Stage Businesses

Can be funded, but:

- Must have funding in place already, to meet burn rate to point when profits are consistently generated
- Spin-outs OK, provided University has no more than 50% equity





What are the benefits?



- Access to academic expertise
- Accelerated, de-risked innovation
- Competitive advantage
- Increased Revenue and profit growth
- New or improved products/services/ processes
- Potential for new IP
- Positive societal / environmental impact.
- Ongoing collaborations with academia to unlock new opportunities.



Associate

- Unique career springboard, applying subject expertise to solve a real-world challenge.
- Valuable leadership, management and project management skills.
- Competitive salary & generous professional development budget.
- Mentoring & coaching provided by Knowledge Transfer Adviser.



Academic

- Opportunity to apply research to a real-world challenge.
- Generates conference, journal papers and case studies.
- Enriches teaching materials & inspires student projects.
- Source of valuable research income.
- Fosters strategic relationship with business & develops commercial awareness.

Knowledge Transfer Adviser (KTA) Support

- A National Network of highly experienced Advisers with remit to support KTP delivery
- Locally based Expert Support and Advice throughout the project lifecycle
- Support and monitor the project
- Mentoring for KTP Associate
- Interface with other Business Connect resources/networks/sector specialists



£50m Funding

Budget

KTP in Numbers (June 2024)

Current Partnerships

812

KB Partners

111

Business Partners

779

Associate Jobs

837

Current Associates

591

Associate Vacancies

246



Example of KTP Costs

	Eligible costs	SME project: Innovate UK grant at 67%	SME project: SME contribution 33%	Large business project: Innovate UK grant at 50%	Large business project: large business contribution at 50%
Contribution to associate employment costs	45,000	30,150	14,850	22,500	22,500
Associate development	2,000	1,340	660	1,000	1,000
Travel and subsistence	1,250	838	413	625	625
Equipment, consumables, and other costs	2,000	1,340	660	1,000	1,000
Knowledge base supervisor	8,000 for example	5,360	2,640	4,000	4,000
Estate costs	0	0	0	0	0
Additional associate support	18,000 for example	12,060	5,940	9,000	9,000
Grant payable or business contribution		51,088	25,163	38,125	38,125



Knowledge Transfer Partnerships

KTP Costs

Standard KTP Budget Approx. £100K - £120K (per year)

Grant rates

3rd Sector: 75%

SME: 67%

Large Companies:

50%

Cost Category	Standard Costs (per year)	
Contribution to associate employment costs	£45K (£48K in London)	
Associate development	£2K	
Travel and subsistence	£1.25K (Standard can ask for more)	
Equipment, consumables, and other costs	£2K (Standard can ask for more)	
Knowledge base supervisor	Varies	
Estate costs (This includes the use of existing facilities and anything chargeable within the knowledge base. Normally this will be zero as the associate is located at the business partner's premises.)	Varies	
Additional associate support (These are the costs for managing the associate, such as computing, personnel admin, learning resources and secretariat support to the LMC)	Varies	



Knowledge Transfer Partnerships

How KTP applications are assessed



IMPACT

- Significant ROI for project + 5 years?
- Competitive advantages?
- New market Opportunities?
- Environmental / societal benefits



INNOVATION

- Applies recent research to development of new or improved products services or processes
- Leads to significant commercial advantage and embedded capability



CHALLENGE

- Challenging to all parties?
- Does it stretch the team?
- Ambitious but achievable?



COHESIVENESS

- Is it credible?
- What knowledge is being transferred?
- Embedding new capabilities?
- Transformational?

The KTP Process from concept to completion







"If you look at history, innovation does not come from giving people incentives; it comes from creating environments where their ideas can connect"

Steven Johnson

www.ktp-uk.org



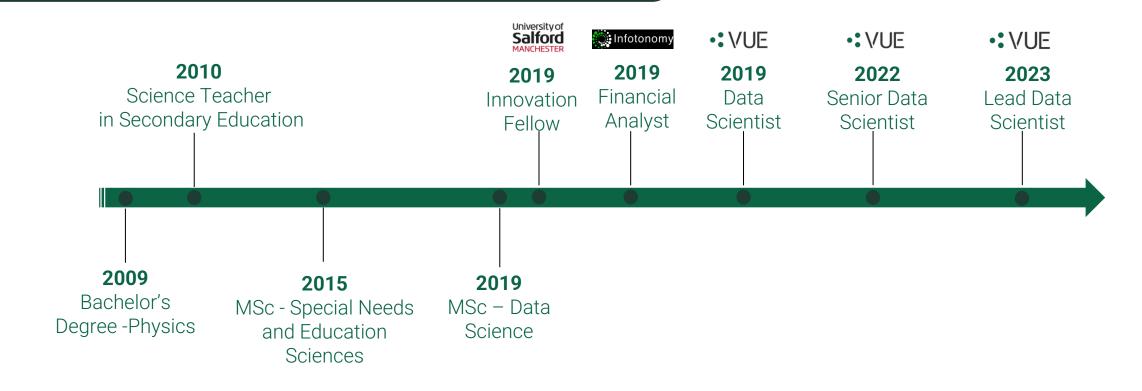
Contents

- 3 My Background
- About VUE
- VUE & The University of Salford Projects
- KTP Project- The Problem
- KTP Project- Objective, Outcome & Future Plans
- KTP Project- Initialisation Process
- KTP Project- Process During Project
- KTP Project- Growth





My Background





About VUE:

From our beginnings in 1999 with fitting reverse cameras to quarry vehicles, we have become experts within the camera and telematics solutions industry, based on years of experience. We offer robust solutions from an established dependable partner; delivering in-house software, hardware and customer support that focuses on prioritising customer needs.

VUE remains a family-owned company founded in Manchester and continues to operate right where it started. We have a dynamic outlook, and our work is underpinned by values of care, integrity, a one-team mentality and striving for excellence.



VUE & University of Salford Projects

:	2019	Driver Behaviour Scoring Models using Machine Learning	Konstantinos Zeimpekis Lia Stanway
2	2021	FNOL Identification using Videos Analysis and DL	Mitesh Rajan
2	2022	Apply ML for recommendations on Fuel Fleet Transition to EV	Prasad Siripurapu
2	2023	Exploring Unsupervised Methods In Crash detection	Hamidreza Satarshamsabadi Prasannavardhini Premkumar
	2024	MSc Data Science	Moneesha Gautam



KTP Project – The Problem

When an event occurs:

- 1. Be sure that it was an actual accident
- 2. Inform the relevant parties







KTP Project – Objective, Outcome & Future Plans

Objective

Develop an innovative First Notification of Loss (FNOL) system

Outcome

Prototype solution with above 90% accuracy using both videos and telematics data

How will we use the prototype in the future?

Connect the service to the pipeline to automatically classify an event as an accident or not and then inform the relevant parties



Knowledge Transfer Partnerships



Recruiting graduates for innovative companies for over 40 years!

Position: Data Scientist - KTP Associate

Based at: VUE Limited, Media City, Greater Manchester

Vacancy ref: 1871122 Application closing date: Thursday 15th October

An exciting opportunity has become available for a Computer Science or Statistics Graduate to develop a market disrupting model, using machine learning, to detect and classify driving incidents in real time from telematics and video data. This positior is a 24-month fixed term contract, with an additional £4k per annum dedicated training budget tallored towards your personal

Qualifications we require

As a minimum, you will hold a 2:1 BSc (Hons) in Computer Science, Statistics or related discipline.

VUE Ltd are a Fleet Risk Management Partner - with industry-

Find out more by visiting: https://vuegroup.org/

This position forms part of the Knowledge Transfer Partnership (KTP) funded by Innovate UK. It's essential you understand how KTP works in partnership with business and the University, and the vital role you will play if you successfully secure a KTP Associate position

If you have questions about this or other KTP vacancies contact:

The Academic team at the University of Salford consists of Dr Tarek Gaber (Lecturer, School of Engineering & Environment) and Prof Sunil Vadera (Professor of Computer Science, School of Science, Engineering and Environment).

The successful candidate will possess

Knowledge and experience of statistical methods and a wide range of data mining methods

Experience of working with databases and different software

Essential skills we require as a minimum:

Apply now: Job Ref: 1871122

- Knowledge of data mining toolkits and languages (such as Scikit learn, Keras, Tensorflow and Python)
 An in depth understanding of software and data mining
- Inquisitive, curious and critical with a methodical approach to resolving novel problems and challenges





KTP Project - Initialisation Process

- **1. Idea and University Discussion:** Discuss project ideas with the university to identify potential collaboration opportunities. Professor Sunil Vadera, Dr Tarek Gaber.
- 2. University Planning: The university drafts a project plan, aligning academic expertise with business needs.
- 3. Final Plan and Deliverables: Mutually finalise the project scope, deliverables, and timeline.
- **4. Job Advertisement**: Advertise the KTP Associate role, specifying required skills and qualifications.
- 5. CV Collection: Receive and review applications to shortlist suitable candidates.
- 6. Multi-Phase Interviews: Conduct interviews in stages to assess candidate fit.
- 7. Offer: Extend a job offer to the selected candidate.
- **8. Acceptance:** Confirm the candidate's acceptance and finalise the start date.
- **9. Project Start:** Begin the KTP, with the Associate starting work on agreed deliverables.



KTP Project – Process during the project

Process During KTP

Daily Meetings:

Associate and Company Supervisor review progress and address immediate tasks.

Biweekly Meetings:

Associate meets with Academic Supervisor to discuss academic input and project alignment.

Monthly Meetings:

Joint meetings with Associate, Academic, and Company Supervisors to review overall progress and adjust plans.

Quarterly Meetings:

Associate, both Supervisors, and KTP University Adviser meet to assess milestones and strategic direction.

Supervisor Time Commitment

Academic Supervisor:

Half a day per week for guidance and academic input.

Company Supervisor:

Daily oversight to ensure smooth project execution and goal achievement.



KTP Project - Growth

Associate's Professional Growth

- · Gained hands-on experience in a live business project.
- · Benefited from collaboration with University Supervisors.
- · Utilised a training budget (e.g., conferences, AWS MLOps training).
- · Started a PhD with the University of Salford.
- · Employed full-time by VUE.

VUE's Growth

- Developed a working prototype with full understanding of its design and function.
- Ready to integrate the solution into existing pipelines.
- · Strengthened partnership with the University.

My Professional Growth

- · Progressed from Data Scientist to Supervisor, then Senior Data Scientist.
- · Gained experience in CV scoring and interview processes.
- · Expanded my network with industry professionals.
- Represented both VUE and The University of Salford.

Thank you for listening

•: VUE

Collaborative R&D Networking Breakfast

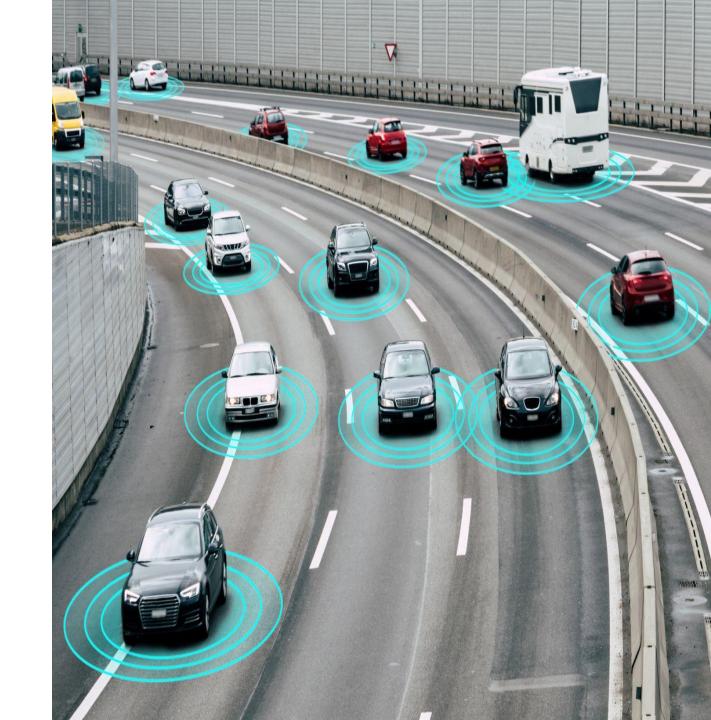
R&D Tax Relief – Oct 2024





Christopher Cunnane

Senior Business Development Manager chris@randdspecialists.co.uk 0161 672 0776





Agenda:

- Overview.
- Who can claim.
- How do you claim.





Overview:

- UK Gov incentive from 2000.
- UK Ltd Companies all sizes.
- Advancement in Science or Technology.
- Products, processes, services.





Who can claim:

- Number of changes to the scheme.
- SME, RDEC & Merged.
- Loss making, grant funded and Uni collab can claim.





How do you claim:

- Robust technical report.
- Additional Information Form (AIF).
- Pre-notification Form.
- Financial Calculations.
- 20% now being checked by HMRC





Thank you!

Any questions?

Christopher Cunnane

Senior Business Development Manager chris@randdspecialists.co.uk 0161 672 0776







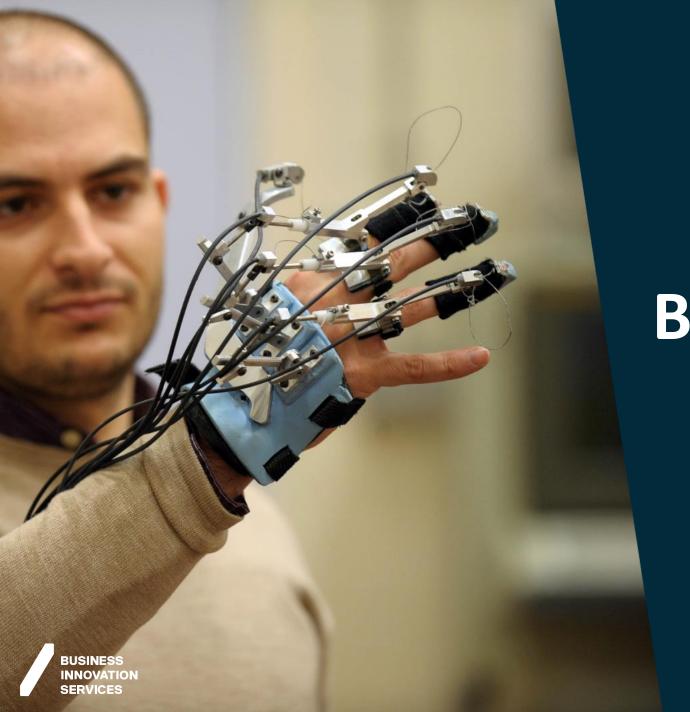
Q&A Panel

10 minutes

BUSINESS INNOVATION SERVICES







Funding Amount and Application



Funding Amount:

/ Up to £10,000 match-funded by the company

/ The same amount awarded is to be match-funded by the business up to the value of £10,000. Any amount surpassing the total amount of £20,000 (£10K funding + £10k match-funding) will need to be covered by the business.

Application Information:

/ The amount awarded will depend on the size and scope of the project, as well as the potential to form part of a large project in the future. The final amount awarded will be decided upon review by the Business Innovation Growth Fund Committee.

/ All projects to be delivered and completed by 31 July 2025



Project Scope





To be used for:

- / Consultancy (access to existing knowledge through our academics) costed up using the standard university cost card
- / Student-led consultancy (led by students with support from academics)
- / Facility hire costs can be included if using for prototype or testing

The funding <u>cannot</u> be used:

- / For training for continuing professional development
- / Contract research



Eligibility Requirements



- / Must have a minimum of 5 employees
- / Has been operational for at least 2 years
- / First time working with the University of Salford
- / Be a UK-registered company
- / Has either an annual turnover not exceeding 50m euros GBP 43.7m), or an annual balance sheet total not exceeding 43m euros (GBP 37.6m), and; other SME eligibility criteria
- / Successfully pass an internal due diligence assessment



Our Team





Business Innovation Services Engagement Team



Katherine Barr

Business Development Associate k.m.barr@salford.ac.uk



Nicola Spooner

Business Development and Marketing Manager n.h.m.spooner@salford.ac.uk



Richard Magennis

Business Development
Manager
r.j.magennis@salford.ac.uk



Brandon Young

Business Development Associate b.t.young@salford.ac.uk



Stay in touch





Richard Magennis

Business Engagement
Manager
r.j.magennis@salford.ac.uk

/ GMCC Digital and Technology Forum – Tues, 19 Nov - 9 -11am – New Adelphi Building Registration link via the GMCC website



/ Salford Sustainability Showcase - Weds 4 December – 9.00am – 2.00pm – New Adelphi Building





Follow us on LinkedIn for upcoming initiatives, events and funding opportunities



