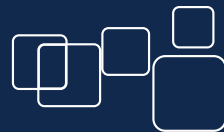




INDUSTRY DOCTORAL TRAINING CENTRE



**AUSTRALIAN
TECHNOLOGY
NETWORK**
OF UNIVERSITIES



**The Australian Technology Network's
(ATN) Industry Doctoral Training Centre
(IDTC) works with you to find R&D
solutions for your business challenges.**

**This unique program combines traditional
PhD and Masters by research with
training in professional and broad
technical skills required by industry.**

**By partnering with us, you'll be able to access
five of the most innovative and enterprising
universities in the country: QUT, University of
Technology Sydney, RMIT University, University
of South Australia and Curtin University.**



Partner and innovate with the IDTC

By partnering with the IDTC, you will benefit from our knowledge and expertise to deliver the results you need for your organisation. Some of the advantages of partnering with the IDTC include:

- Growing your talent pipeline with highly skilled potential recruits
- Access to our brightest researchers (students, research support staff, academics)
- Achieve quick milestone deliverables within agreed timelines
- Access to the broader ATN network of research institutes in areas such as big data, data science, finance, computational science, psychology, design, gaming and engineering
- Access to state of the art facilities, technology and specialists in mathematical, statistical, computational, and information sciences across all five ATN universities
- Opportunities to collaborate and network with researchers, students and industry
- A tailored and confidential research program that is IP-protected where your company will own IP generated by the research for fully funded IDTC students
- Upskill your own employees by nominating them as a part-time PhD or Masters student
- An opportunity to contribute to the broader community by facilitating the training of a PhD student

Our projects drive innovation

Our research students work closely with industry partners on research projects that drive innovation, economic development, social change and environmental sustainability.

Our students are collaborating with SMEs, Not For Profits, and some of Australia's biggest companies as well as Government agencies including the ABS and CSIRO.

IDTC projects span across a diverse range of industries and topics including:

- Pricing and hedging of financial options
- Superannuation modelling
- Credit risk modelling
- Price and risk management for commodity markets
- Data networking
- Logistic planning
- Schedule optimisation in the electricity industry
- Stroke care treatment modelling
- Geospatial modelling of chronic disease
- Analysing occupational health performance in industry
- Ecological systems and climate modelling
- Optimisations in the resources sector



CASE STUDY

Save a minute – Save a day **Every minute counts in the treatment of stroke patients**

Stroke is the third most common cause of death, and the sixth most common cause of disability around the world. While treatment of hyperacute stroke patients is known to be time-critical, there has previously been no data on the long term effects of small reductions in treatment delays.

In conjunction with industry partner Florey Institute of Neuroscience and Mental Health, IDTC and RMIT researcher Mahsa Keshtkaran has discovered that each minute of onset-to-treatment time saved, grants the person on average 1.8 days of extra healthy life.

In the study, which included the analysis of 2,258 patients data collected over 13 years, it was concluded that each 15 minute decrease in treatment time provided an average of one month additional disability-free life per patient.

Since the publishing of this research in flagship journal 'Stroke' in 2014, the team has utilised this evidence to not only create awareness of the extent that time plays in treatment, but to promote a practice change within hospitals aimed at maximizing patients' life time benefits.

Further research allowed the team to develop a standardized decision support model that can be implemented within hospitals to assist health care professionals choose treatment pathways for stroke patients, leading to further decreases in onset-to-treatment time delays.

Tailor the IDTC to you

We understand that industry requirements will be different and specialised. This is why the IDTC comes with two options to ensure the program works for you.

OPTION 1

Recruit a new Masters or PhD student

- We will help you recruit high-achieving research students to any of our five universities who have embraced an industry focus for their work and their research. Your organisation will be involved in the selection process.
- Your organisation will have access to an experienced ATN researcher to supervise the student.
- Your organisation will gain access to significant R&D infrastructure at each of our five universities.
- If it suits your business model, it is always possible to offer the student employment in your organisation.

OPTION 2

Upskill your own employees

- By nominating an existing employee as the Masters or PhD student, your company will have a staff member equipped with detailed organisational knowledge to solve your problem.
- Your employee will expand their knowledge base by developing new technical and professional/transferable skills.
- Your employee will spend most of their research time located at your company site.
- You will have access to an experienced ATN researcher to supervise your employee. Your organisation can also appoint your own internal project supervisor.
- Your organisation will gain access to significant R&D infrastructure at each of our five universities.
- Your employee can do the research project on a part-time basis.





Flexible pricing options

Our industry partners all have unique requirements, which is why we offer a range of flexible pricing options to suit your business needs.

Your funding support as an industry partner guarantees you a committed team operating on your behalf to achieve your organisational goals. Our researchers and students are committed to regular communication with you, to staying flexible to your needs, and to protecting your IP and confidentiality.

The cost of the program, where fully funded by the industry partner, comes with IP ownership, assuming no existing ATN IP is used in the project.

The IDTC team are available to discuss what pricing options will best suit you.

"Organisations benefit greatly from access to the wider research effort and skill set in the university, and are able to strengthen existing collaborations and develop new ones through networking opportunities with researchers, students and industry."

GREG STONE – IDTC ADVISORY BOARD CHAIR & HEAD OF DIGITAL SERVICES AUSTRALASIA AT ARUP.

"I have been able to develop skills to communicate my research with academics and non-academics from various fields within industry and government. This has been possible through frequent networking events with colleagues from academic, industry and government sectors, as well as opportunities to deliver conference presentations and participate in competitions, which were all vital parts of the IDTC program."

JANNAH BAKER – IDTC GRADUATE, QUT.



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ATN.EDU.AU/IDTC

8/1 Geills Court Deakin ACT 2600

E: DirectorIDTC@atn.edu.au

T: 02 5105 6740