

INNOVATION & VENTURES

FROM RESEARCH TO REAL WORLD **IMPACT**

Accelerating Innovation From Research to Real-World Impact



Partner with UTP to access research, expertise, technologies, facilities, talent and innovation opportunities.

SIX PATHWAYS. ENDLESS POSSIBILITIES.



RESEARCH
Partner & Discover



SOLVE
Address Challenges



TEST
Validate & De-Risk



ADOPT
Deploy Technologies



CO-CREATE
Build New Solutions



UPSKILL
Build Capability

INNOVATE . COLLABORATE . IMPACT .

WHY PARTNER WITH UTP?

UTP is a research-intensive university focused on translating knowledge, technology and talent into real-world impact.



WHAT WE DELIVER



RESEARCH EXCELLENCE

Multidisciplinary research aligned with industry, national and global priorities.



INDUSTRY-READY TECHNOLOGIES

Technologies progressing from research towards validation, licensing and deployment.



DEEP EXPERTISE

Engineering, science and technology capabilities across multiple disciplines.



INNOVATION & VENTURES

Platforms to co-create, commercialise and build new ventures.



ADVANCED FACILITIES

Specialised laboratories, analytical platforms and technical facilities.

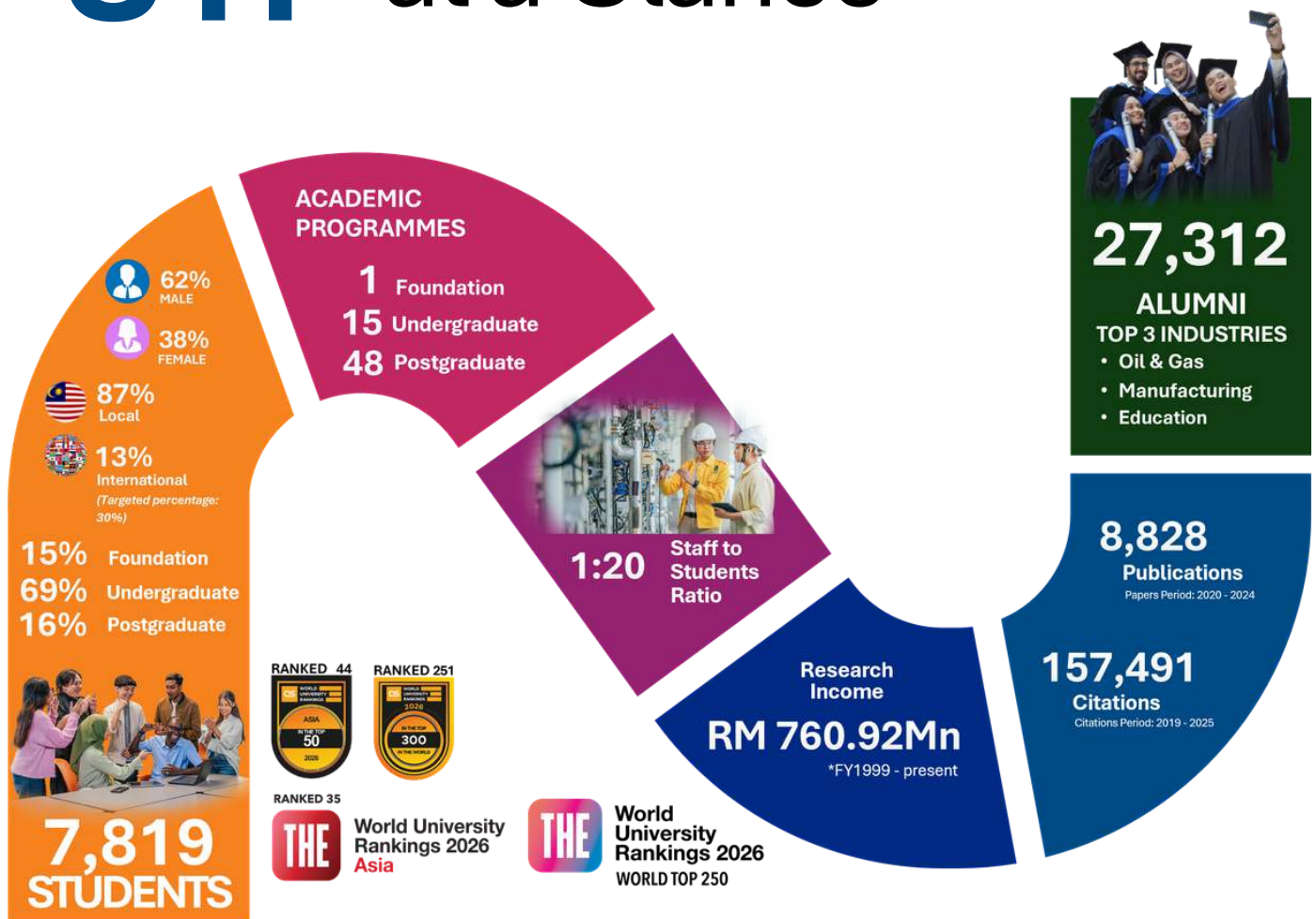


FUTURE-READY TALENT

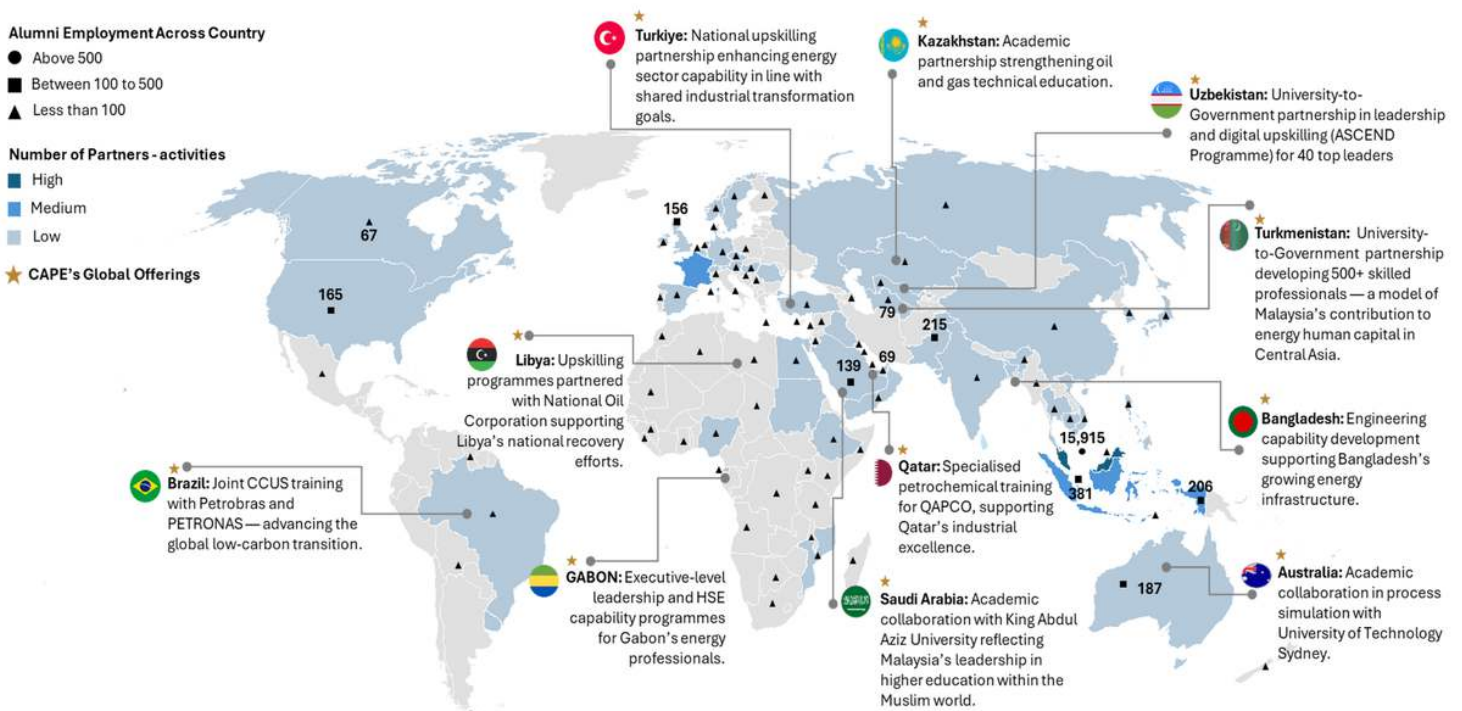
Executive education, professional learning and workforce development.



UTP at a Glance



UTP Global Impact Map



ONE GATEWAY . SIX PATHWAYS.

Wherever you start, UTP connects you to the right capability, partner and opportunity.



REAL WORLD IMPACT

Driving innovation that creates economic value, strengthens industries and improves lives.



ENTER ANYWHERE
Start from your need. Move across the ecosystem.



CONNECT EASILY
We connect you to the right expertise, facilities and partners.



COLLABORATE
Work together to create solutions and shared value.



CREATE IMPACT
Deliver real-world solutions for a sustainable future.

PARTNER & DISCOVER

Turn strategic challenges into research-driven opportunities.



UTP's research agenda is driven by three Grand Challenges aligned with industry needs, national priorities and global sustainability goals.



ENERGY SECURITY

Resilient & Secure Energy Systems

Addressing the critical need for secure, clean, and resilient energy systems in the face of a rapidly growing global energy demand.



SUSTAINABLE LIVING

Adaptive & Intelligent Habitats

Investigating how technology can create adaptive and intelligent habitats of all scales – from natural environments to mega-cities – to enhance resilience, sustainability, and quality of life.



REGENERATIVE FUTURE

Engineering Living Systems

Engineering the transition from extractive models to regenerative ones by designing intelligent circular systems and bio-integrated technologies.

UN SDGs



National and PETRONAS Priorities



UTP Capabilities

Grand Challenge Selection

Our dedicated research institutes bridge scientific discovery with real-world deployment to create measurable economic, environmental, and societal impact.



Institute of Energy Security (IES)

Secures reliable, low-carbon energy systems by addressing supply chain vulnerabilities, decarbonising industrial systems, and advancing grid intelligence.



Institute of Sustainable Living (ISL)

Optimises human habitats by integrating engineering and digital intelligence into resilient, low-carbon, adaptive built environments.



Institute of Regenerative Futures (IReF)

Restores ecosystems beyond conventional sustainability by translating research into pilot deployments like bio-based carbon capture and watershed rehabilitation.

How Can You Engage?

- Industry Sponsored Research
- Research Partnerships
- Technology Development
- Joint R&D
- Grant Collaboration



Have a challenge or research opportunity?

Let's explore it together.

TARGETED EXPERTISE. REAL-WORLD IMPACT.

*Unlocking Deep Domain Capabilities
Across UTP's Research Engine*

Guided by researchers' expertise, performance achievements, and core strengths, UTP redefined its research structure to establish six new research centres in addition to the existing HiCOEs, creating eight centres that advance interdisciplinary research and innovation.

FIND THE EXPERTISE BEHIND YOUR CHALLENGE

8 Centres. 1 UTP Ecosystem. Infinite Possibilities for Collaboration.

OUR CAPABILITIES



ENABLING HIGH IMPACT RESEARCH



ADVANCED FACILITIES

State-of-the-art laboratories, pilot-scale facilities, and specialised equipment.



WORLD-CLASS TALENT

Strong community of researchers, engineers and innovators.



INDUSTRY COLLABORATION

DEEP partnerships to co-create solutions and drive real-world impact.



PURPOSE WITH IMPACT

Research aligned with UN SDGs, national priorities and industry transformation.



RESEARCH THAT INSPIRES INNOVATION.
INNOVATION THAT CREATES IMPACT.

Turning knowledge into solutions
that shape a better future.

ADDRESS INDUSTRY CHALLENGES

Complex industry challenges require multidisciplinary expertise.

Partner with UTP to access research, engineering and technical expertise that delivers practical solutions for industry.



OUR EXPERTISE

Engineering & Asset Integrity



- Reliability & maintenance
- Structural integrity
- Corrosion & degradation
- Risk assessment

AI, Digitalisation & Data Analytics



- AI solutions
- Digital twins
- Predictive analytics
- Industrial digitalisation

Energy & Sustainability



- Decarbonisation
- Carbon management
- Renewable energy
- ESG & sustainability

Advanced Materials & Manufacturing



- Materials selection
- Failure analysis
- Manufacturing optimisation

ADDRESS INDUSTRY CHALLENGES:

Consultancy

Technical Advisory

Engineering Expertise

Contract Research



Currently managing over

70 to 200
projects yearly

valued at more than

RM 50 Million

Resources

Total Lecturer **312**

41%

129 out of 312 consultants are involved in consultancy, contract research & sample testing

TOTAL NUMBER OF PROJECTS

(2016 - 2025)

659

Consultancy, Contract Research & Sample Testing

With a track record of delivering high-impact industrial solutions.

Connect With Us



programmeoffice@utp.edu.my

VALIDATE & DE-RISK

When decisions depend on evidence, get the right data.

UTP helps organisations validate performance, investigate failures, ensure compliance and reduce uncertainty.



WHAT WE OFFER

High-precision testing platforms and advanced instrumentation tailored to safeguard asset integrity and ensure compliance.



Chemical & Elemental Analysis

CHNS | TOC | Karl Fischer | TAN | Calorimetry



Spectroscopy & Chemical Analysis

FT-IR | Raman | NMR | ICP-OES | AAS | UV-Vis



Advanced X-Ray Analysis

XRD | XRF | XPS



Chromatography & Mass Spectrometry

GC-FID | GC-MS | Headspace GC | LC-MS | Natural Gas Analysis



Advanced Microscopy & Imaging

CPLM | SPM | FESEM | SEM | HRTEM | EDS



Physical & Thermal Characterisation

Density | Pour Point | DSC | TGA | Porosimetry | Particle Size

WHY UTP?



Supported by UTP Centralised Analytical Laboratory (CAL)

OUR FACILITIES



Natural Gas CO₂ Flow Loop



Karl Fischer Titration



Foamscan Analyser

Reach out to find out more about our specialised laboratory services.

Need to Test,
Analyse or
Validate?
Talk to Us!

SCAN TO CONNECT



ACCELERATING INNOVATION FROM LAB TO MARKET

Connecting ideas, expertise, and opportunities to create market-ready innovations.

Connecting research excellence with industry needs, UTP enables the translation of innovative ideas into market-ready solutions through intellectual property management, technology transfer, and expert consultancy.



WHY PARTNER WITH US?

We enable industry to access innovation that is structured, protected, and deployment-ready.

Access to Validated Technologies

Structured IP Governance

Pilot & Sandbox Facilitation

Flexible Collaboration Models

Strong Technical Depth

Expert Technology Consultation



COMMERCIALISE OUTCOME

Transfer, collaborate and bring innovation to market.



Licensing

License IP and technologies for products and services



Technology Transfer

Transfer technologies to industry partners.



Joint Development

Co-develop solutions through strategic partnerships.



Technology Services

Provide technical services and specialised expertise.



Spin-Off Collaboration

Support and collaborate on venture and spin off creation.

ADOPTION JOURNEY



Discover

Identify high potential research and technologies



Assess

Evaluate technical feasibility and market potential.



Protect

Secure IP through patents, copyrights, trademarks, industrial design and trade secrets.



Develop

Mature technology through validation and optimisation.



Commercialise

License, partner or launch to create industry impact.



Impact

Deliver measurable value and drive sustainable growth.

TECHNOLOGY DOMAIN



DIGITALISATION



DECARBONISATION



GREEN TECHNOLOGY
& SUSTAINABILITY



RENEWABLE ENERGY

INNOVATE TOGETHER. TRANSFORM TOMORROW.

Let's turn ideas into impact that powers industries and society.

LET'S START THE CONVERSATION

Connect with us to explore collaboration, opportunities that drive real impact.



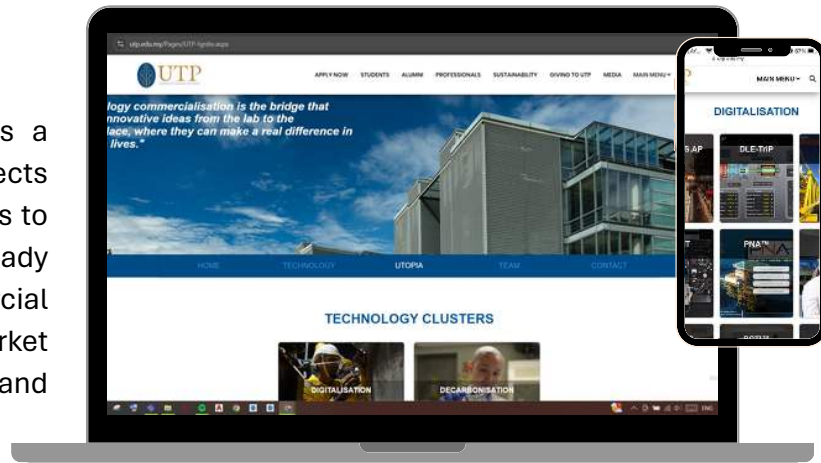
BUILD NEW SOLUTIONS

Connecting Industry to UTP's Technology Marketplace

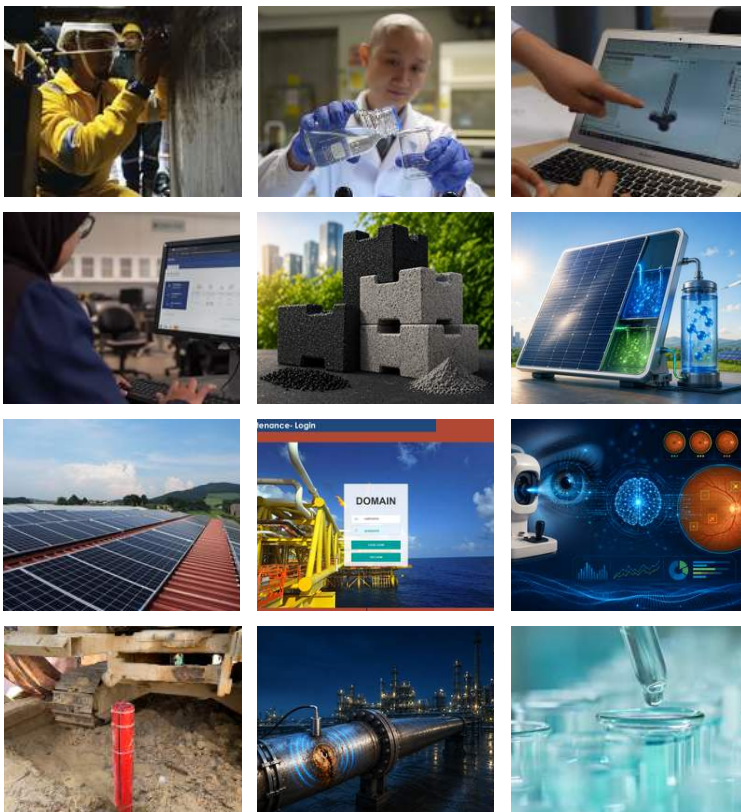


Connect Through **IGNITE**

UTP IGNITE (UTP Technology Marketplace) is a problem-driven innovation platform that connects researchers, industry partners, and entrepreneurs to co-create and commercialise market-ready technologies. Built to deliver real-world commercial outcomes, it bridges academic research with market demand through licensing, spin-off creation, and strategic industry collaboration.



Have a problem, technology or opportunity? Let's co-create.



WE COLLABORATE THROUGH:



Technology Scouting



Pilot Projects



Open Innovation



Joint Development



Startup Partnerships

Ready to scale
your next
breakthrough?
Let's co-create

SCAN TO CONNECT



BUILD & SCALE INNOVATION

Connecting Industry to UTP's Technology Marketplace



Accelerate Your Innovation With **UToPIA**

UToPIA is more than a programme, it's a launchpad for innovation and entrepreneurship. We empower visionary ideas, nurture startups, and transform bold concepts into thriving businesses. Join us on this transformative journey and experience firsthand the limitless potential and opportunities that UToPIA unlocks.

Join us and be part of UToPIA Innovation Ecosystem



Access to Innovation

Access to a pipeline of innovative startups and technologies



Cost Efficiency

Cost-effective way to explore and implement innovative solutions



Market Expansion

Development of new products/ services, potentially expanding market reach and diversifying offerings.



High-Potential Startups

Early access to promising startups with the potential for high growth and returns on investment.



Economic Growth

Job creation, increased economic activity, and the development of new industries.



Networking

Connect with other industry players, fellow investors, fostering valuable relationships.

From Innovation to Commercial Mastery

A structured venture-building platform that develops entrepreneurial talent and accelerates innovation through the 4E framework by integrating product excellence with business and commercial mastery.



@utopia_utp



utopia@utp.edu.my

UPSKILL

BUILD FUTURE-READY TALENT

Technology transforms industries.
People make transformation happen.



We deliver industry-aligned learning solutions through executive education, professional training and future skills development.

WHAT WE DELIVER



Executive Education

Strategic programmes for leaders and senior professionals



Professional Certification

Industry-recognised certifications that build credibility and career growth.



Technical Training

Practical, hands-on training to enhance technical skills and performance.



Leadership Development

Build leadership mindsets for high-performing teams and organisations.



Digital Transformation

Future-focused programmes to accelerate digital adoption and innovation.



Customised Corporate Learning

Tailored solutions designed to meet specific organisational needs and goals.

OUR CORE EXPERTISE AREAS



INDUSTRY 4.0

Smart manufacturing, automation, AI, data analytics and digital technologies.



ENGINEERING EXCELLENCE

Advanced engineering practices, reliability, asset integrity and operations excellence.



RENEWABLE ENERGY & SUSTAINABILITY

Clean energy, carbon management, ESG and sustainable business solutions.



OIL & GAS

Upstream, midstream and downstream expertise across the oil & gas value chain.



BUSINESS ESSENTIALS

Strategy, finance, project management, communication and professional skills.



HRDCorp
Registered



Flexible Learning
Options



Industry Relevant
Curriculum



Research Driven
Content



Customised
Solutions for
Organisations



Learn more about CAPE

Find our training catalogue, business services, calendar, social channels, and location—all in one place.



LET'S COLLABORATE

Wherever you start, we'll connect you to the right pathways.

CHOOSE YOUR STARTING POINT



RESEARCH

Partner & Discover

Collaborate on purpose-driven research to discover new knowledge and advance solutions.



SOLVE

Address Challenges

Access multidisciplinary expertise to solve complex technical and operational challenges.



TEST

Validate & De-Risk

Validate performance and generate reliable evidence through advanced testing, analysis and pilot trials.



ADOPT

Deploy Technologies

Access industry-ready technologies and solutions to drive efficiency, sustainability and growth.



CO-CREATE

Build New Solutions

Co-create and commercialise new solutions and ventures through strategic partnerships.



UPSKILL

Build Capability

Build future-ready talent through industry-aligned learning and professional development.

SCAN TO CONNECT

Let's start a conversation and explore opportunities together



✉ tech_transfer_ip-mgt@utp.edu.my



Explore technologies at UTP IGNITE
<https://ignite.utp.edu.my/>



@techtransferipm

Get Connected with



Scan the QR code or go to <https://bit.ly/2Ra323b>

www.utp.edu.my |    **UTPOfficial**

