



iLAUNCH Information Session

Second Round Investment Call

Expressions of Interest for Project
Funding

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Acknowledgement of Country

We acknowledge the Traditional Custodians of country throughout Australia and their connections to land, sea and community.

We pay deep respect to their Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.

iLAUNCH Information Session | Agenda



1. Introductions
2. About the iLAUNCH Trailblazer
3. Current industry partners
4. 7 program areas
5. About the Second Round Investment Call
6. Criteria – TRL & investment
7. IP
8. Funding and leverage
9. Next steps

iLAUNCH Vision & Impact



Additive
Manufacturing



Rocket
Launch



Rocket
Manufacturing



Hypersonics & Flight
Diagnostics



Satellites, Communications
and Sensors



Materials and Processing



Advanced Technologies

The **iLAUNCH Trailblazer** is a \$180 million program building Australia's enduring space capability through the commercialisation of projects, a fast-track accelerator, and skills development to build the workforce of the future.

Commercialising great ideas into space hardware

- **World class** – Research from UniSQ, ANU, and UniSA,
- **Leveraged** - \$50m Government funding into a \$180m consortium,
- **Fast** – up to 3.5 years,
- **Challenging**- TRL 4 to 7/8 (space qualified),
- **Generous** – IP favourable to industry,
- **Focussed** – an experienced industry leadership team,
- **Inspirational** – using space to inspire and build the workforce of the future.

Trailblazer Universities Program



Australian Government
Department of Education

- \$370.3 million over four years to FY 2026/2027
- Build new research capabilities, drive commercialisation outcomes and invest in new industry engagement opportunities.
- Trailblazer Universities will become leaders in research commercialisation, with dedicated investment in strategic priority areas.
- Each Trailblazer University will receive \$50 million, which will be matched by university and industry partners.

National Manufacturing Priority	Trailblazer University
Resources Technology for Critical Minerals	Curtin University
Food & Beverage Accelerator (FaBA)	University of Queensland
Australian Trailblazer for Recycling & Clean Energy (ATRaCE)	University of New South Wales
Recycling & Clean Energy Commercialisation Hub (REaCH)	Deakin University
Defence Trailblazer for Concept to Sovereign Capability (CSC)	University of Adelaide
Innovative Launch, Automation, Novel Materials, Communications, and Hypersonics (iLAUNCH)	University of Southern Queensland

iLAuNCH Programs



Core Commercialisation Projects

- › Industry driven
- › Shift from low-mid TRL to high TRL
- › IP translation from universities to industry
- › Launch, Launch Manufacturing, and Payload Technologies



iLAuNCH Space Accelerator (iSA)

- › \$1.8m total fund size
- › Encourage investment & collaboration between industry and research
- › Proof of Concept / Proof of Technology (TRL3-5)
- › Short-term projects (<12 months)
- › Funding up to \$100k

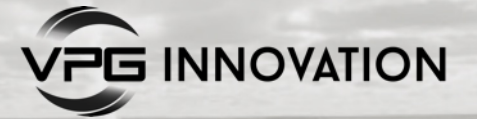


Future Skills Development

- › All elements co-designed with industry
- › Inspire school aged children
- › Micro-credentialling
- › Space Degrees
 - Bachelor of Space Engineering
 - space science



Industry and Delivery Partners



iLAUNCH First Round Projects

Additive Manufacturing

- reduce repair time of composite structures in space and defence from days down to hrs
- electron beam melt manufacturing of high temperature alloys for hypersonics and space
- produce high dimensional tolerance satellite optics

Materials and Processing

- carbon fibre structures for on orbit applications with a 5:1 weight savings
- 30% weight saving and 25% cost saving will be realised for composite rocket fuel tanks
- Safer radiothermal isotopes for lunar missions

Hypersonics & Flight Diagnostics

- creates a new business opportunity in airborne observations
- development of a hypersonic missile early warning system satellite constellation

Rocket Manufacturing

- creating supply opportunities in both the civil space and defence sectors
- maturation of ground test and qualification

Rocket Launch

- launch site identification and development
- novel materials for rocket launch facilities

Satellites, Communications and Sensors

- sensor detector controllers for Earth observations
- predictive health monitoring for astronauts
- qualification of 2 satellite buses

Advanced Technologies

- capturing space, aerospace and high technologies that have exceptional value and technical merit to the ecosystem
- technologies may include upstream and downstream space manufacturing technologies, emerging early stage capabilities or traditional manufacturing as a spin-inn to the space ecosystem

Second Round Investment Call



Open call for Expressions of Interest

- Access remaining funding
- Foster the creation and commercialisation of space and aerospace-related research and innovation in Australia



Timing

- Open from Friday 6 October 2023
- Closing midnight on Monday 20 November 2023 (AEST)

Eligibility Requirements



Team

- Driven by Australian based industry partner.
- Minimum of one industry and one partner university.
- Projects must be in collaboration with one of our partner universities, UniSQ, ANU, or UniSA
- International companies eligible
- Inclusion of end use customer encouraged

Industry Growth

- Develop and commercialise IP from prototypes into products
- Increase Technology Readiness (TRL) & Investment Readiness Levels (IRL).
- Project outcome needs to relate to the seven Research Program topics

The Submission

EOI Template available at:

<https://ilaunch.space/core-commercialisation-projects/project-funding/>

Two Parts:

1) Project Concept

- Summary, Aims & Objectives, Problem Statement, Strategic Alignment, Utilisation, Impact

2) Project Schedule

- Team, Activities, Strategy & Methodology, Milestones and Deliverables, Risks, IP, Resources

Submission via:

- Online: <https://ilaunch.space>
- email: ilaunch@usq.edu.au

Proposal Assessment and Approval Flow



What are we looking for?



Investment criteria

1

Strategic Alignment

2

Impact

3

Utilisation

4

Research And Innovation

5

Project Management

Criteria 1

Strategic Alignment

- Aligning projects to iLAuNCH themes and strategic objectives
- Project is committed to boost Australian sovereign space capability
- There is a strong end-use need and pathway for commercial outcomes
- Opportunities to further partner with universities on educational and upskilling agenda

Criteria 2

Impact

- TRL maturity and commercialisation pathway is well defined
- Project will develop novel technologies or processes with clear benefits for end-users
- Scale up to international supply chain is highly desirable

Criteria 3

Utilisation

- TRL maturity and commercialisation pathway is well defined
- Achieving TRL 7 by the end of the project is highly desirable
- New opportunities for business growth and jobs

Criteria 4

Research and Innovation

- Quality of the project team:
- Does project team have track record of delivering complex projects?
- Significant science outcomes

Criteria 5

Project Management

- Clear alignment between budget and deliverables
- Deliverables and timelines are realistic and achievable
- Good value for money
- Cash investments from industry and universities are encouraged

Funding Arrangements



Industry (50%)

- Doubled by the University/iLAuNCH grant
- Minimum contribution of \$100k per year
- Cash and or In-Kind
- International contributions eligible

iLAuNCH (25%)

- In combination with Research Partner matches Industry contribution
- Cash contribution

Research Partner (25%)

- May contribute cash and or In-Kind
- Receives funds to undertake Project activities

Intellectual Property (IP)



Tailored and unique IP agreements for every project

- Providing sensible and flexible IP agreements that encourage collaboration and industry growth
- The goal is to facilitate the transfer of technology to industry for maximum impact
- We work with industry partners to ensure the IP arrangements align with their business model

iLAuNCH Next steps

1

Discuss your project and challenges with us



2

Explore potential collaboration opportunities



3

Submit project proposal



Contact Us

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iLAUNCH

Building Australia's sovereign space capability
ilaunch.space



University of
Southern
Queensland



University of
South Australia



Australian
National
University

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