WESTERN AUSTRALIAN ROVER PROJECT

Sponsorship Prospectus

2026


UWA


CURRENT PROGRESS

Contents

Executive Summary

The WA Rover Project (WARP) is a student-led team of 30+ engineers at UWA competing in the Australian Rover Challenge (ARCh), designing and building a lunar-style rover from the ground up.

ARCh provides a hands-on environment where students design, build, and operate a mission-ready rover, developing skills in teamwork, problem-solving, and technical execution. This project strengthens students' readiness for industry while fostering interest in robotics and the rapidly growing Australian space sector.

We are seeking sponsorship to support rover development, competition costs, and team travel to Adelaide. Partners gain visibility among future engineering talent, opportunities for engagement with students, and the ability to support STEM education in Western Australia directly.

Our goal is to build a sustainable program that empowers students each year, creating a strong community of learning, innovation, and leadership at UWA.

About the Team

WARP is a fully student-led engineering group focused on designing and building a rover for the Australian Rover Challenge. Formed as an extracurricular initiative, we give students meaningful hands-on experience in robotics and space-inspired engineering.

Who We Are

- 30+ students from engineering to arts backgrounds.
- United by an interest in practical learning, teamwork, and exploration.
- Guided by experienced students who mentor newer members.

What We Do

- Design, build, and test a rover each year.
- Prepare for a competition that simulates real lunar mission tasks.
- Develop skills in design, fabrication, electronics, autonomy, and field operations.

Our Purpose

To give students meaningful engineering experience beyond the classroom, and build a lasting space robotics community that grows each year.

TEAM LEADS

Edwin Mathew Abraham

Project Lead

Armaan Chawla

Science Lead

Zac Cole

Drivetrain Lead

Prashan Wijesinghe

Electronics Lead

Aaron Teo

Manipulator Lead

Alex Valiukas

Autonomous Lead

Jordan Lanagan

Communications Lead

WA ROVER PROJECT

Project and Student Impact

WHAT THE ROVER INVOLVES

Autonomy

Enables independent navigation using cameras, LiDAR, and IMU sensors, handling object detection, obstacle avoidance, and real-time mapping in unstructured terrain.

Robotic Manipulator

Robotic arm attachment used in construction, excavation and maintenance tasks.

Teleoperations

The software stack links each subsystem together, and allows either manual or autonomous operation.

Science Payload

The rover's science payload can extract water from lunar ice deposits.

Power Systems & Electronics

Advanced power logging and shut-off features ensure the rover meets strict off-world power requirements.

Chassis

4-wheeled rocker bogie design, bar suspension, and grooved wheels to navigate lunar terrain with ease.

HOW STUDENTS BENEFIT

- Hands-on experience with real-world engineering design and testing.
- Development of technical skills across robotics, electronics and software in an advanced multi-disciplinary project.
- Growth in teamwork, communication, leadership, and project management.
- Exposure to space robotics and industry-relevant technologies.

Why Partner With Us

Partnering with us is an opportunity to support the next generation of WA engineers while gaining meaningful visibility and engagement within a motivated student community.

Your Impact

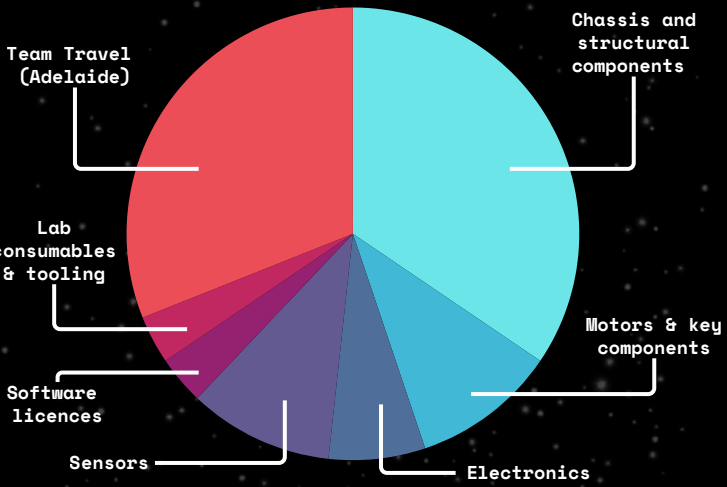
- Directly support hands-on STEM education and student development.
- Help students gain real engineering experience through a major technical project.
- Strengthen the local pipeline of robotics and space-focused talent.

Your Benefits

- Brand exposure across our rover, team apparel, events, and digital platforms.
- Opportunities to engage with students through workshops, mentoring, or recruitment.
- Association with an ambitious, student-led initiative shaping future engineers.

By partnering with us, you are not just funding a rover, you are investing in students, capability, and the growth of Western Australia's next generation of innovators.

Budget Overview



- Chassis and structural components (panels, hubs, suspension rework)
- Motors & key components (spares + new)
- Electronics (power system, PCBs, connectors)
- Sensors (LiDAR, IMU, cameras)
- Software licences (Ansys, other)
- Lab consumables & tooling
- Travel (flights, accommodation, car hire — est. 16 people)

Sponsorship Tiers and Benefits

Platinum
$10,000+

- Logo on website
- Social Media Advertisement
- Logo on merchandise
- Logo on rover
- Perth outreach event
- UWA Robot Club expo booth
- Company site visit

Gold
$5,000 - $9,999

- Logo on website
- Social Media Advertisement
- Logo on merchandise
- Logo on rover

Silver
$2,000 - $4,999

- Logo on website
- Social Media Advertisement
- Small logo on merchandise

Bronze
$500 - $1,999

- Logo on website
- Social Media Advertisement

(*) Supporter – <$500 or in-kind

Sponsors are welcome to contribute to the overall project or choose to support a specific budget area that aligns with their interests.

Sponsor Involvement

Financial Support

- Contribute towards components, materials, competition costs, student travel and accommodation expenses.
- Donate industry-grade equipment, sensors, or fabrication resources.

Workshops & Technical Guidance

- Workshops and hands-on training sessions.
- Share specialised knowledge in areas like autonomy, structures, or electronics.
- Review and provide feedback on student designs and engineering decisions.

Industry Engagement

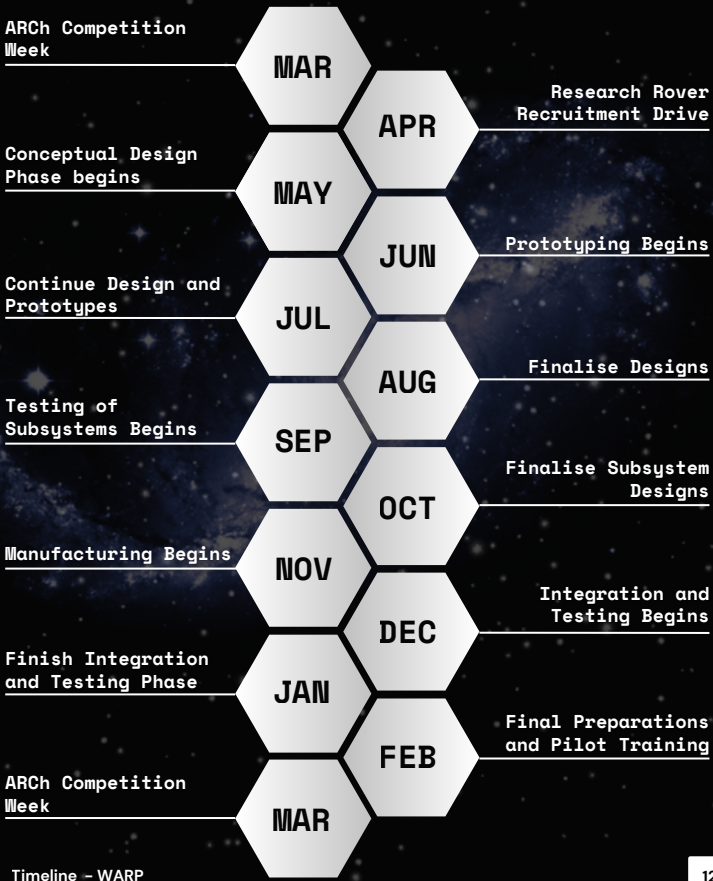
- Site visits and guest talks.
- Participation in UWA events and showcases.
- Networking opportunities with industry professionals.

Student Opportunities

- Open internship and graduate pathways for team members.
- Project collaborations and thesis supervision.
- Co-mentoring students on technical challenges.

Project Timeline 2026/2027

Subject to Change



Past Achievements and Milestones

2024-2025:

- Placed 15th out of 24 international teams at ARCh 2025, demonstrating great potential in our first competition attendance.
- First Western Australian team to participate in ARCh.
- Development of first UWA competition-ready rover.
- Establishment of UWA Rover Project as an annual program.

The UWA Rover's first appearance at ARCh 2025

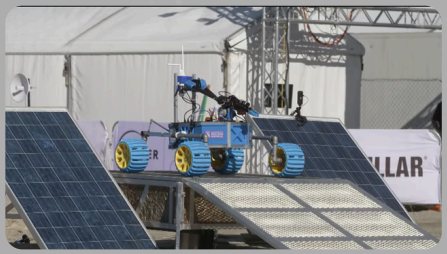
2025-2026:

- Placed 14th out of 30 international teams at ARCh 2026, showing continuos improvement.
- Produced a working rover platform which can be re-used to streamline future development.
- Secured two significant industry partners
- Secured small workshop and equipment.

Past Achievements and Milestones

Goals for 2026-2027:

- Achieve top 10 teams
- Implement comprehensive technical documentation for custom hardware systems
- Revamped modular rover design addressing past issues with system integration
- Introduction of autonomous mapping and exploration capabilities
- Furnishing the rover workshop with equipment, tools and parts to allow more in-house development
- Creating structured pipelines that bridge academic research and industry applications



The UWA Rover at ARCh 2026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Proudly Sponsored By

THE UNIVERSITY OF WESTERN AUSTRALIA

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We look forward to working with you!

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