

The **ARC Centre for Excellence in Plants for Space (P4S)** is an Australian led research and education centre that combines University with Industry and Space Agencies.

P4S is exploring ways to re-design plants to produce nutritious future foods, materials and medicines that enable humans to thrive in Space and enhance Earth sustainability.

# MISSION: PLANT LIFE ON MARS

### School Opportunity:

A flexible hands-on Space STEM challenge aligned to the Australian curriculum. Classes supplied with \$1000 of free resources and expert support.

Students learn about the challenges of growing plants on Mars, plan, construct, and program robots to care for plants on Mars.

Student showcase their work to esteemed Space professions at La Trobe university!

#### The program:

- Receive resources and learning guides
- Teacher kick-off workshop: "How to build a Mars farming robot"
- Students carry out challenge at school: construct robots, code and care for Martian plants. Your school determines the structure and duration (a few weeks - two terms)
- Technical and content support is available through P4S mentors
- Celebrate and share student work and meet the Space experts



#### P4S provides:

- Class set of resources: robotics, space plants, and "Mars" growth equipment
- Teaching and learning guides
- Authentic research to enrich the Australian curriculum and build skills
- Expert mentors to support students and spotlight STEM careers.
- Showcase event with Space professions (incursion/excursion)
- CRT + transport costs (on application)

**Who:** Students in years 5-6, 7-10 and STEM Clubs **When:** Starts in Term 2 and concludes in Term 3

For more information: Please contact f.thorpe@latrobe.edu.au

## Express you interest here:

https://forms.office.com/r/fHXDi4jqxF



Australian Government

Australian Research Council

The University of Adelaide, The University of Western Australia, la Trobe University, The University of Melbourne, Flinders University, University of California, Berkeley, University of California, Davis, University of Wisconsin-Madison, Rice University, University of Cambridge, University of Nottingham, Research for Agriculture, Food and Environment, ETH Zürich, Vertical Future, Space Lab, Gaia Project Australia, The Andy Thomas Space Foundation, Dr Joanna McMillan, The Victorian Space Science Education Centre (VSSEC), One Giant Leap Australia Foundation, South Australia Botanic Gardens, South Australian Space Industry Centre (SASIC)- Defence Science and Technology Group, Department of Primary Industries and Regions, South Australia, Australian Genome Research Facility, Saber Astronautics