

# Novel Space Component Challenge

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## Overview

The New Zealand Space Agency invites innovators, researchers, and companies to participate in the Novel Space Component Challenge – a national initiative to accelerate the maturity of novel space technologies developed in New Zealand.

Selected proposals will receive flight opportunities aboard commercial orbital or suborbital platforms to validate their satellite sub-systems in space or in the stratosphere. Proposals should target novel components that address key challenges in space systems including, but not limited, to:

- Propulsion systems
- Power systems
- Thermal control
- Materials and structures
- Avionics and software
- Sensors and payloads
- Environmental technologies

Successfully matured technologies demonstrated through the programme may have the opportunity to be incorporated into a future sovereign national mission.

## Challenge Objective

To strengthen New Zealand's space technology ecosystem by enabling flight demonstration of satellite sub-systems and innovative components that are predominantly designed and manufactured in New Zealand.

## End User

New Zealand Space Agency

## Desired Outcomes

By providing flight opportunities, the programme seeks to raise the technology readiness level (TRL) of these components to strengthen the domestic space supply chain, and position New Zealand as a trusted contributor to global space missions. It also promotes inclusive participation, fosters commercialisation pathways, and generates flight data to support future mission integration and export potential.