



# Australian Universities Rocket Competition 2018/2019

## 2018/2019 Competition Schedule

# 1 Introduction

The Australian Universities Rocket Competition is Australia's first national university rocketry competition hosted by the Australian Youth Aerospace Association. Commencing in 2018, the AURC was designed with the aim to provide graduate engineers and scientists with the skills required for the growing aerospace industry in Australia. It also aims to provide a practical competition for Australian students passionate about rocketry. The AURC was inspired by a number of rocket competitions around the world, with the intention is to integrate the best parts of other rocket competitions around the globe to design the greatest tertiary rocket competition in the world. Furthermore, the AURC aims to encourage student teams to be as multidisciplinary as possible to reflect complex, real life space projects that require a mix of engineers and scientists from different backgrounds. This event continues the AYAA's legacy of promoting education, awareness and involvement in the aerospace industry to young Australians.

## 1.1 Background

Australia is no stranger to space; the nation's involvement can be dated back as far as the 1940's when the Woomera Rocket Range was established in South Australia. This site eventually became a landmark in the west as the world's second largest launch and tracking facility. Paul Scully-Power, the first Australian to enter space as an Oceanographer in 1985, and Andy Thomas the first Professional Australian Astronaut acting as payload commander in 1996 are a few famous names in Australia's space adventures. Fast forwarding to recent times, in 2017, South Australia hosted the International Astronautical Congress, where the Australian Space Agency was announced. Exciting times are certainly abound for Australians, and the AYAA hopes to strengthen this by fostering a greater interest in aerospace with a national rocketry competition. Additionally, this competition aims to increase the interest in STEM careers for Australian university students and provide them with a practical outlet to extend themselves beyond the lecture halls to design and build rockets themselves. The students that compete will develop their skills in a team environment, solving real-world problems under the same pressures they would experience in their future careers. This will be the inaugural AURC and the AYAA hope to continue this as an annual competition.

## 1.2 Purpose

This document outlines the schedule for deliverables and payment deadlines of the 2018/2019 AURC. Student teams must submit the required project deliverables and forms to the event organisers by the specified dates and times outlined in the following document. Late payments of any fees for the AURC will attract late payment charges. Eventually, payments will not be accepted due to logistic limitations, you will be advised of this date when payment is due. This document will be updated to contain the detailed event schedule of the AURC launch event in the coming months.

## 1.3 Updates

The AURC 2018/2019 Competition Schedule document is a 'live' document and will be updated by the AYAA as needed throughout the year leading up to the AURC. The most recent version will always be maintained on the AURC website.

Student teams should always verify they are working with the correct version by checking the “Effective Date” as seen on the top right of each AURC document, and ensuring the version matches the version displayed on the AYAA website. The AYAA will never revise the Competition Schedule document to reschedule deadlines sooner than they were originally scheduled. Updates to the AURC 2018/2019 Competition Schedule document will be announced via email.

## 1.4 Fees

Student teams entering the AURC should expect to pay AUD \$1050 per rocket team and \$120 per student team member.

- **Entry Deposit:** The entry deposit fee is required to make down payments for facilities, rentals, and any new equipment required before the event. In addition, the entry deposit will also be used to pay for each team’s AMRS group membership. The AMRS group membership fee has been included in the cost of the entry deposit and as such the entry deposit must be paid to the AURC. Each team’s entry deposit shall be paid as soon as possible after receiving their invoice from the AYAA. This fee is refundable up until the 18th of January 2019.
- **Competition Fee:** The competition fee is required to pay for event costs that are not directly related to the number of people at the event. Each team’s competition fee shall be paid as soon as possible after receiving their invoice from the AYAA on the 10th of December 2018. This payment is non-refundable.
- **Participant Fee:** The participant fee is the price per head for each individual attending the AURC event at Thunda Down Under 2019. Teams shall inform the AURC organising committee of the number of team members intending to travel to the AURC launch event before being invoiced for the total amount. This payment is non-refundable. Note that only team members who will be physically attending Thunda Down Under 2019 will be required to pay the participant fee.

## 2 AURC Competition Schedule

Table 1 displays the schedule for the 2018/2019 AURC. Student teams must meet the required project deliverables and competition fees deadlines. Unless otherwise specified, all times given are Australian Eastern Standard Time (AEST).

Table 1: AURC Deliverables Schedule 2018/2019

Date	Deliverable
Monday 26 <sup>th</sup> April 2018	AURC registration opens
Friday 3 <sup>rd</sup> August 2018 T- 9 months before launch window	Teams will be issued their invoice for the AUD \$300 Entry Deposit fee. AURC registration closes
Monday 17 <sup>th</sup> September 2018 T- 7 months before launch window	1 <sup>st</sup> Progress Update is due
Monday 10 <sup>th</sup> December 2018 T- 4 months before launch window	2 <sup>nd</sup> Progress Update is due Teams will be issued their invoice for the AUD \$750 Competition Fee and the AUD \$120 individual Participant Fee.
Friday 18 <sup>th</sup> January 2019 T- 3 months before launch window	The AUD \$300 Entry Deposit fee is no longer refundable if claimed after this date.
Monday 18 <sup>th</sup> March 2019 T- 1 month before launch window	Technical Report is due (includes Analytical Simulation and Virtual Vehicle Design Results) School Participation Letter is due
Wednesday 17 <sup>th</sup> April - Sunday 21 <sup>st</sup> April Lift-off	Competition Launch Event Prototype Vehicle Design marked on-site.