



A U S T R A L I A N
U N I V E R S I T I E S
R O C K E T
C O M P E T I T I O N

2024 AURC Committee Information Pack

10th September 2023



The AURC is an initiative of the Australian Youth Aerospace Association INC.

WHAT IS THE AURC?

The Australian Universities Rocket Competition (AURC) is a multidisciplinary team engineering competition for tertiary STEM students, organised by the Australian Youth Aerospace Association (AYAA). In the competition universities compete to design, manufacture, and launch a high-power rocket to a target altitude in the span of a year. In 2019 the first AURC took place, where teams launched rockets to 10,000 and 30,000 ft altitude in regional Queensland. In 2020 and 2021, the competition took place in an online only format, with no rocket launch event.

With many Australian University teams travelling to the USA to compete in a similar competition, interest in model rocketry is higher than ever. AYAA has appointed a new Director of the AURC and will be returning the Australian competition with an in-person launch date set for September 2024. Developments regarding sponsorship, a launch site and propellant availability have made the competition feasible again.

In the 2024 AURC, students are offered a unique challenge to design, build and launch a single-stage, high powered rocket using commercial-off-the-shelf solid fuel motors to 5,000ft, 10,000ft or 30,000ft. Teams are scored in their design, the quality of their manufactured rocket, launch trajectory, payload, and safe & accurate recovery and more. Teams will also have the opportunity to design a 2kg CubeSat payload for the competition's payload challenge. More details and rules and requirements will follow in due course.

APPLICATION INFORMATION

The Australian Youth Aerospace Association is currently recruiting for positions within our 2024 Australian Universities Rocket Competition subcommittee. As a volunteer in this team, you will gain unparalleled experience in preparing a large-scale intercollegiate competition, including aspects specific to the launch of high-power rockets. This extracurricular involvement will undoubtedly give applicants a head-start in a career in the aerospace industry. Please do not hesitate to direct any questions about the roles to director@aurc.ayaa.com.au,

- Six (6) positions are available and detailed below, with the scope and time commitment of each varying.
- Expected time commitments are only a guide and will vary week to week.
- To avoid conflicts of interest, **applicants may not be members of prospective competing teams.**
- Engineering experience is not required, and all backgrounds are welcome, but applicants should have a passion for the aerospace and space industry.
- The term for each role is 1 year and will conclude 4 weeks after the 2024 competition date.
- One position is available for each role except where otherwise specified.
- Applicants may apply for multiple positions.
- AURC is a competition run by the AYAA and consequently all AURC sub-committee members remain committee members of the AYAA with associated responsibilities.
- All roles are voluntary and unpaid. AYAA is not able to provide any additional financial assistance for travel, accommodation, and other expenses incurred.
- Applications should be accompanied by a 1-page cover letter explaining suitability for the roles applied for.
- Applications can be made here <http://aurc.ayaa.com.au/committee-applications> and will close on October 13th.

VACANT POSITIONS

The following positions in the 2024 AURC subcommittee are open for application.

1. Deputy Director

The Deputy Director is the second in command for the AURC subcommittee, and responsible for tasks that would typically fall under a treasurer and sponsorship coordinator role. They will assist the director in overseeing the operation of the subcommittee, particularly those matters which are monetary, working closely with stakeholders and the logistics coordinators.

As the Deputy Director is a position within the AYAA national committee, applications must be made separately to other AURC subcommittee roles on the AYAA website. More information can be found at <http://ayaa.com.au/join/>.

Responsibilities (10 hours weekly)

- Chair meetings in absence of the director
- Co-supervise the AURC subcommittee.
- Work with the AYAA national committee to oversee the AURC subcommittee finances, including budgeting, competitor fees and invoicing.
- Assist the director with interactions of external stakeholders including sponsors and competition judges.
- Write reports and documentation on AURC strategic outcomes.

Relevant Experience

- Experience in leading a team
- Experience in fundraising and/or financial management.
- Exceptional interpersonal skills.

2. Event Administrator

The Event Administrator is the official document recorder for the AURC subcommittee. They are responsible for all tasks that will facilitate the smooth operation of the committee business, especially those administrative in nature.

Responsibilities (5 hours weekly)

- Organising of AURC subcommittee meetings, including recording of all proceedings.
- Editor of AURC documentation.
- Assist with administrative tasks as they arise.

Relevant Experience

- Excellent English, proofreading, editing, and reviewing skills.
- Highly organised and systematic.

3. Communications Coordinator

The Communications Coordinator will act as a graphic designer and marketing specialist for the AURC subcommittee. They will prepare all promotional material in line with the AYAA image and have an eye for digital marketing.

Responsibilities (5 hours weekly)

- Overseeing the distribution of AURC subcommittee related announcements to be shared via the website, social media, or email.
- Creation of promotional content and graphic design for the AURC subcommittee to be shared via the website, social media, or email.
- Design Mission Patches and other additional merchandise such as t-shirts, hats, etc.

Relevant Experience

- Creative aptitude and supporting portfolio of work.
- Experience with graphic design software (Adobe products, Canva etc.)
- Experience managing social media.

4. Logistics Coordinator (2 available)

The Logistics Coordinator will oversee the preparation of the AURC 'festival' which is the culminating event of the competition. This will be a multiday event where students will camp, compete, and ultimately launch their rockets and hence needs associated infrastructure.

Responsibilities (5 hours weekly)

- Facilitating the organisation associated with an in-person competition launch event.
- Liaising with the launch site representatives, sponsors and regulating bodies.
- Reviewing range Safe Operating Procedures.
- Booking venues, preparing launch infrastructure and amenities.
- Maintaining a working budget and timeline.

Relevant Experience

- Experience in event management.
- Familiarity with model rocketry and launch site functionality.

5. Teams Coordinator

The Teams Coordinator will assist the director with liaising with the competing students and communicating competition expectations.

Responsibilities (10 hours weekly)

- Oversee competition deliverables including marking.
- Point of contact for competing teams.
- Manage and update channels for communication.
- Reviewing competition rules and deliverables, timeline and marking.

Relevant Experience

- An understanding of Model Rocketry is highly preferable.
- Non-students are preferred for this role.

APPOINTED POSITIONS

The following positions are additional AURC subcommittee roles which have already been appointed for the 2024 competition and hence not open to applicants. They are listed here for completeness.

1. Director

- Overseeing all aspects related to the preparation and operation of the 2024 AURC competition.
- Supervising of the AURC subcommittee members.
- Maintaining competition rules and regulations.
- Developing and maintaining a working budget and timeline, as well as managing finances and ensuring that the event does not finish on a loss.
- Sourcing sponsors, supporters, and merchandise.
- Managing key stakeholders, and ensuring all teams are supported.
- Organising the marketing campaign and effectively using available media to advertise.

2. Advisor (2 available: AYAA President & Vice President of Strategy)

- Watch over the AURC subcommittee to ensure their actions are in-line with the AYAA objectives.
- Provide guidance on AYAA resources.

THANK YOU

The AYAA would like to express our thanks to you for considering joining on our committee. With your help, we can bring the Australian Universities Rocketry Competition back for many years to come. Please do not hesitate to direct any questions about the AURC to our director at director@aurc.ayaa.com.au or reach out to our team at contact@ayaa.com.au. We look forward to receiving your application.

