

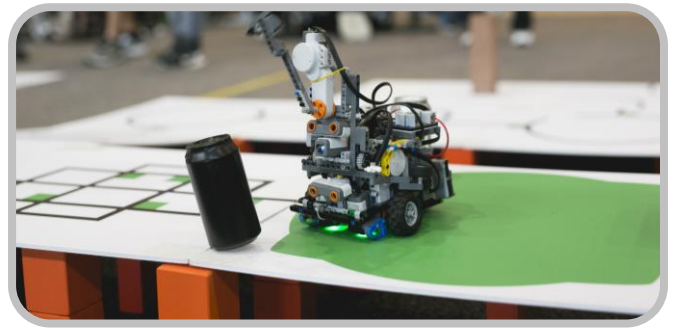
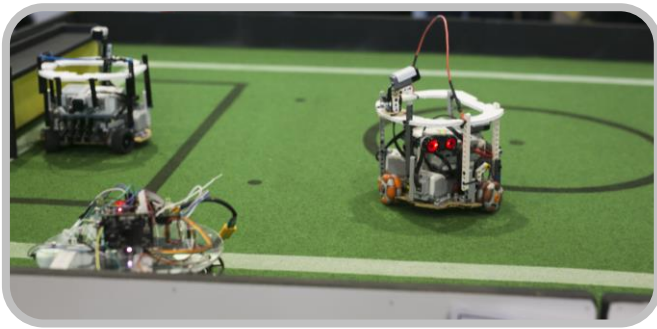


Frequently Asked Questions

What is RoboCup?

RoboCup Junior Australia is a project-orientated robotics competition and educational initiative for Australian students and mentors. Students are required to work together over the course of the year to design, build and program robots that can compete in one of three robotic challenges (Dance, Rescue and Soccer). Robots are built by students, not teachers, with the additional requirement that all robots must feature a unique and original design. At various points in the year, students and robots come together to compete in regional, state and national competitions that take place all around Australia.

RoboCup Junior empowers students to develop and apply their skills across the combined disciplines of Science, Technology, Engineering and Maths (STEM). RoboCup Junior has recently been described by the office of the Australian Chief Scientist as the number one STEM competition currently operating in Australia.



When does RoboCup Junior WA take place?

The RoboCup season in WA runs from approximately March to August each year. Throughout the season, the RoboCup Junior WA committee aim to provide a series of workshops and competitions across Perth and regional WA. These events culminate in the epic RoboCup Junior WA state event at Curtin Stadium, hosted by our event partner Scitech.

The two-day WA state event takes place over a full-day Friday and half-day Saturday, at the end of the third week of Term 3. Registrations for this event are open to all, but participation in the additional RoboCup events and competitions throughout the year is strongly recommended as an opportunity for students to develop their skills and understanding.



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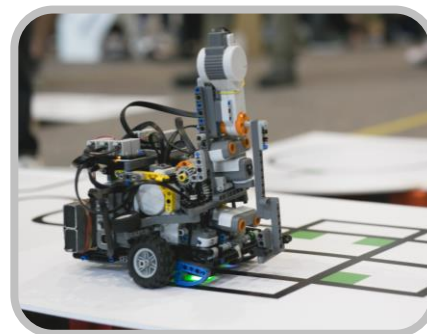


What are the challenges?

Each team must choose one challenge in which to compete. Challenges are set by the RoboCup Junior Australia national committee and are currently as follows:

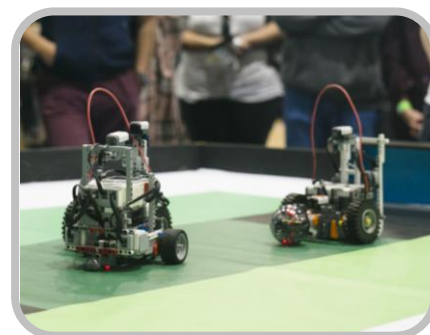
Dance

Design and perform a short robot dance show. Program your robot (or robots) to dance to a piece of music, and dance alongside them as a human performer. Aesthetics and coding skills are emphasised in the scoring criteria. Sensors and Bluetooth may be used to enhance the performance. This is a great challenge for newcomers.



Rescue

Design, build and program a robot which can autonomously navigate a maze and conduct rescue operations. The standard version of the challenge involves following a series of lines and rescuing a silver can from a danger zone. Courses are set randomly on the day and the maze features various obstacles. Rescue is a good intermediate challenge.



Soccer

Design, build and program two robots to compete in a Soccer match against two other robots from an opposing team. Goals are scored with an infra-red emitting ball on a specially-marked field. Multiple specialist sensors mean Soccer is great option if you are looking for an extended challenge.

What are the rules for each challenge?

Rules and guidelines are set nationally by RoboCup Junior Australia national committee. Rules are released in approximately March each year and can be found at www.robocupjunior.org.au. Please note that adults and mentors may not assist students with any building or programming at any RoboCup event.

In addition to the national rules, the RoboCup Junior WA committee may sometimes implement regional variations. Information regarding any regional variations will be announced via the RoboCup Junior WA mailing list.

What age group is RoboCup suitable for?

RoboCup Junior WA is for all Primary and Secondary school students. There is no minimum age limit, but students must be competent enough to design, built and code their own robot. Each challenge can be entered at a range of age levels.

In WA, the Dance and Rescue challenges can be entered at the following age levels:

Primary	Only students of Primary School age may enter
Secondary	Students of all ages may enter
Open	Students of all ages may enter

Due to its more advanced nature, RoboCup Soccer is structured differently and does not differentiate by age group. Entry category in Soccer is instead based upon the weight of the robot (**Standard**, **Lightweight** or **Open**).

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How many people are allowed on a team?

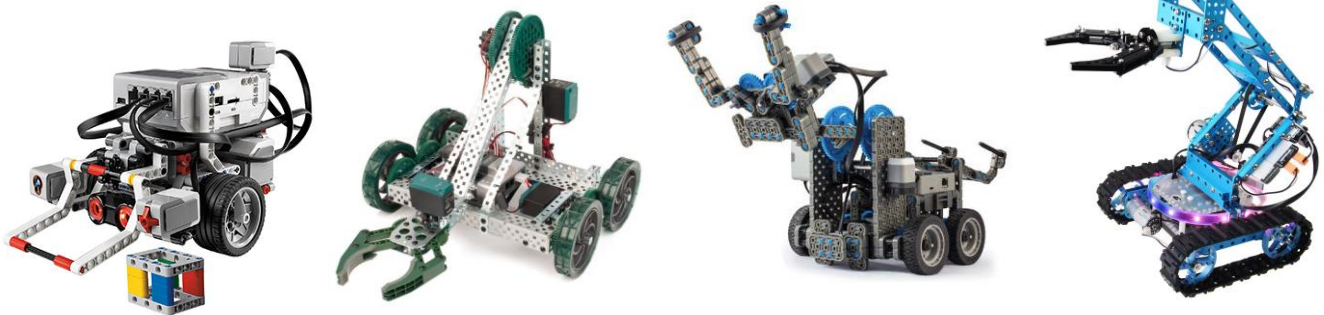
The minimum size of a team is 2 competitors. There is no maximum limit for the size of each team, however the recommended team size is 4 students. Small teams often work more productively and provide a better experience. A maximum of 4 medals will be guaranteed to winning teams.

Who are mentors?

The role of mentor can be held by a teacher, a parent or any other responsible adult. Mentors may accompany multiple teams, but each team should have a clearly identified adult mentor (not several). At least one adult mentor must accompany all competitors from your school or organization, and mentors retain duty of care of all competitors during events. Mentors help students prepare for RoboCup by providing coaching and encouragement, assisting with team registrations and payment, transporting teams to the event, and lending emotional support on the day. Please note that mentors must not help competitors in any way on the day of the competition.

What robotic equipment is permitted to be used at RoboCup Junior WA?

RoboCup is open to any and all hardware, subject to the requirement that the competing robot must be designed, built and programmed by competitors. All competing robots must feature a unique and original design, meaning a pre-built “out-of-the-box” robot using a standard design will not be permitted to compete. Students must also be able to understand and explain their design choices and coding logic to the judges. Robot-building kits such as Lego Mindstorms, Vex IQ, and MakeBlock provide an easy way for students to begin designing and building their own robots with minimal prior experience.



What does RoboCup Junior WA cost to enter?

Perth Metro events cost \$5 per student. Please note that competitors may enter only one Perth Metro event. Any regional events (taking place outside the Perth Metro area) are free to enter. The cost to enter the WA State Event at Curtin Stadium is \$20 per student, covering entry to both days of the competition. Teams will also need to qualify on the first day of the state event in order to compete in the finals on the second day. Payment for entry into the state event will be collected at the time of registration via online credit card payment. In the event of team withdrawal, refunds will be provided to your credit card.

Can I come and watch?

Absolutely! Entry is free for spectators and we’d love to see you. Attending a RoboCup event as a spectator is a great way to learn more about RoboCup and share ideas. It’s also great fun! Human spectators are welcome at all events including the WA state event at Curtin Stadium. If you’re new to robotics, why not come along to watch and start preparing for next year?

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I'm new to robotics, how can I get started in RoboCup?

Scitech, our WA Event Partner, offers Robotics and Coding incursions for your school in which your students can learn the basics of building and programming robots - no experience required! Scitech also offers a range of Professional Learning workshops for teachers exploring robotics and coding. For more information visit Scitech's website at www.scitech.org.au.

Modern Teaching Aids, our Platinum National Sponsor, also offers several teacher workshops throughout the year, offering an introduction to robotics using Lego Mindstorms EV3. Information on upcoming sessions is released via the WA mailing list.

Volunteering as RoboCup Junior WA event staff

If you think you've got what it takes, why join us and volunteer yourself as event staff for one of the RoboCup Junior WA events? We are always on the lookout for judges, scorekeepers, robot wranglers and general event staff. Volunteering as RoboCup event staff is also an excellent way to learn more about RoboCup and robotics in general. Please note that all volunteers will require a valid working with children check.

What's involved in running your own RoboCup event?

The RoboCup Junior WA committee are always looking for opportunities to get more WA students engaged in RoboCup. Please note that RoboCup Junior Australia is a registered not-for-profit organization and all RoboCup events in WA must first be approved by the RoboCup Junior WA committee. If you would like to run your own RoboCup event, please get in touch with the committee to discuss your options by emailing wa@robocupjunior.org.au.

Competing in RoboCup Junior Australia

Each year, the end of the RoboCup Junior WA season is followed by the RoboCup Junior Australia national competition. The national competition takes place in September and is open to all competitors, regardless of participation in the WA state event. For further information on the national event, visit the official RoboCup Australia website at www.robocupjunior.org.au.

Mailing List and getting in touch

If you haven't already, ensure you visit www.robocupjunior.org.au/wa and sign up to the RoboCup Junior WA mailing list for the latest news and updates. Any enquiries regarding RoboCup Junior WA may be directed to the RoboCup Junior WA Committee.

If you'd like to take a role in the future growth of RoboCup in WA, why not join the committee? Meetings take place every month throughout the WA season and the committee is always looking for new members. If you would like to join, please express your interest by emailing wa@robocupjunior.org.au.

Thanks for supporting RoboCup Junior WA and we look forward to seeing you at a RoboCup event sometime in the near future. With your help, we can ensure the robotic future of WA and the world is in safe hands!

THE **ROBOCUP** *Junior* W.A. COMMITTEE

www.robocupjunior.org.au

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