



UNIVERSITY OF
TORONTO

RSX SPONSORSHIP PACKAGE

2024/2025



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Who Are We

Meet RSX!

Robotics for Space Exploration (RSX) is the University of Toronto's Mars Rover design team. Formed in 2013 by passionate roboticists, space enthusiasts, and undergraduate engineering students. RSX designs and builds Mars Rovers to inspire students in the field of space engineering.

Our slogan, "The sky is not the limit, it just gets in the way." embodies our boundless passion for space exploration, integrated robotics, and engineering education. At RSX, we strive to push boundaries and challenge the forefronts of science, providing students with a space to learn and experiment with the newest technology available in the industry. By doing so, RSX encourages students to learn and grow through hands-on experience.

ARM TEAM

MECHANICAL TEAM

ELECTRICAL TEAM

SOFTWARE TEAM

SCIENCE TEAM

MARKETING & EVENTS TEAM

CANSAT TEAM





Our Vision

The field of space engineering is growing at a rapid pace and we hope that RSX will play a part in bolstering the interest in space and space engineering, as well as develop the next generation of skilled Canadian engineers who will be at the forefront of the space industry.

By designing, building, and testing robots designed for planetary and lunar exploration, RSX competes in space engineering competitions around the world.

At heart, our true passion is manned space exploration, and we hope to build robotic systems to facilitate it.





What We Do



RSX designs and builds Mars Rovers to compete at university-level robotics competitions internationally. RSX's major competitions include the University Rover Challenge (URC) in Utah (USA), Canadian International Rover Challenge (CIRC) in Alberta (Canada), and European Rover Challenge (ERC) in Kielce (Poland) that have over 100 competitors.

RSX operates at the Myhal Centre for Engineering Innovation and Entrepreneurship, using facilities such as the U of T Student Machine Shop, the Myhal Centre Fabrication Facility, and the University of Toronto Institute of Aerospace Studies (UTIAS) Mars Dome for fabrication, assembly, and testing.

The URC, CIRC, and ERC competitions emulate Martian conditions and tasks such as object retrieval, equipment servicing, lifeform analysis, and autonomous navigation. This demands a high level of technical performance in many disciplines of science and engineering.



What We Do

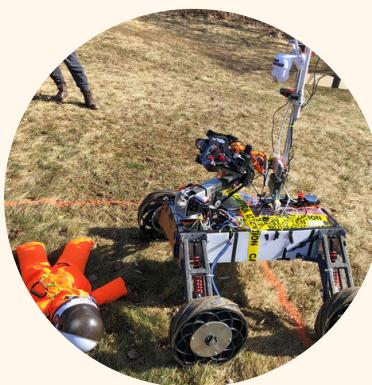
RSX consists of 75+ members from various streams of engineering (Engineering Science, Mechanical, Electrical, Computer, Mineral, and Chemical), and Computer Science. RSX members use industry-standard software such as Altium, SOLIDWORKS, AutoCAD, gazebo, or ANSYS and gain technical expertise in areas such as artificial intelligence, electrical board design, and robot simulation. RSX provides students with opportunities to apply in-class knowledge to real-world problems, gain experience in industry-standard practices, and hone skills in leadership and teamwork.

Accomplishments



**3RD
IN CANADA**

URC 2024



**3RD
OVERALL**

CIRC Winter 2024



**DESIGN CHALLENGE
INNOVATION AWARD**

ONTARIO ROVER RALLY 2019

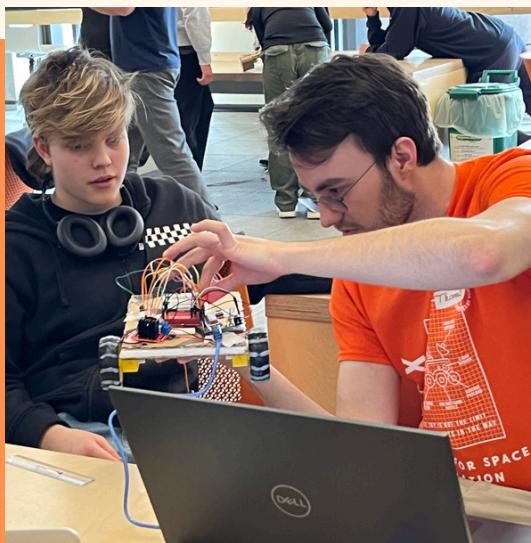


Giving Back to the Community

RSX runs with the support of our community, including the University of Toronto, mentors/alumni, and sponsors; they support our mission and encourage our members to pursue their passions in space engineering and robotics. Through outreach activities in the Greater Toronto Area, we hope to pay the deed forward and help spark a passion for robotics and space engineering in university and high school students.

SEEK & SEEK Jr

SEEK was started in 2015 as a full-day robotics hackathon initiative; students were challenged to design and build mini rovers, which were required to navigate through obstacle courses autonomously. Throughout the event, students have the opportunity to learn about the engineering design process and robotics topics from University students who specialize in these areas and they also get to build a teleoperated robot from scratch! The event has been run every year since (with the exceptions of 2020 and 2021 due to the COVID-19 pandemic) and has expanded to include secondary school students in a second event, SEEK Jr. For the SEEK 2024, there was about 300 attending students.





Giving Back to the Community

Community Outreach

As part of our outreach activities, we visit high schools and robotics competitions to talk about opportunities in engineering through post-secondary education. Many RSX members were inspired to pursue engineering by STEM and robotics opportunities in high school, and we hope to provide younger students with the same experiences and encourage them to pursue engineering.

Our initiatives include demonstrations at the Ontario Science Center, at Canadian space conferences, and at elementary schools, where everyone is given opportunities to try operating the rover, and ask questions!





Sponsorship Benefits

RSX runs on the generous support of our sponsors and donors. The support they provide enables the team to improve further and gives students more opportunities to learn about engineering practices and skills in a hands-on environment.

Donations and sponsorships are used to purchase rover parts/equipment, fund outreach initiatives, and support student travel expenses. If desired, sponsors and donors may specifically designate the allocation of sponsorships and donations to certain initiatives, purposes, or subteams. In-kind donations of tools, parts or services are also greatly appreciated.

As an RSX sponsor or donor, you support the University of Toronto's undergraduate and graduate engineering body in learning, developing, and innovating the next generation of extraterrestrial expedition technology.

Sponsorship Tiers

PLATINUM LEVEL

GOLD LEVEL

SILVER LEVEL

BRONZE LEVEL





ROBOTICS FOR SPACE EXPLORATION

Our sponsors receive opportunities to advertise their brand, invitations to exclusive demonstration events/tours, team apparel, and more!

Our sponsorship tiers include the following:

	Platinum Over \$4000	Gold Over \$2500	Silver Over \$1000	Bronze Over \$200
Link and logo on the team website	✓	✓	✓	✓
Logo on social media				
Logo on competing rover	✓	✓	✓	✓
Logo displayed on promotional material of RSX initiatives	✓	✓	✓	✓
Logo on team merchandise and apparel	✓	✓	✓	
Invitation to rover demonstration at the University of Toronto or UTIAS Mars dome on field test days by requests	✓	✓	✓	
Team member resume access by request	✓	✓		
Personal demonstration of the rover at our or your workplace on date of choice by request	✓			



Get in touch!

We hope you consider supporting Robotics for Space Exploration as we continue to innovate and engineer Mars Rovers at the forefront of technology. Your support propels RSX to new heights, representing your brand, the University of Toronto, and Canada on an international level at Mars Rovers competitions.

On behalf of the entire RSX team, we would like to thank our current and future sponsors for their immeasurable support.

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