



QUEEN'S  
SPACE  
ENGINEERING  
TEAM

SPONSORSHIP PACKAGE

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2020-2021

# WHO IS QSET?

The Queen's Space Engineering Team (QSET) is a group of over 100 undergraduate students who are passionate about robotics and space technology. Founded in 2006, QSET designs and builds a semi-autonomous Mars rover that competes annually at the international University Rover Challenge. In 2012, we established the Queen's Space Conference—the first undergraduate space conference in Canada—and in 2016, we began designing nanosatellites for the Canadian Satellite Design Challenge. QSET provides the opportunity for students to develop industry transferrable skills and hands-on research experience while developing solutions to open-ended design problems. Outside of competition, we have a strong commitment to community outreach within Kingston and the university.

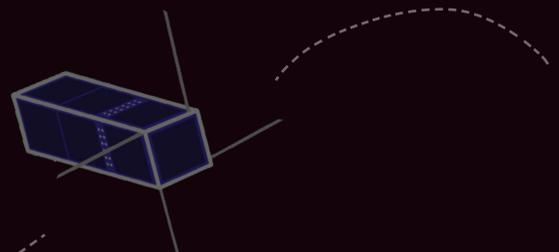


## ACHIEVEMENTS AND VISION

In 2019, QSET placed 2<sup>nd</sup> in Canada and 15<sup>th</sup> in the world at the University Rover Challenge. Additionally, the team completed launch qualifications of its first CubeSat for the Canadian Satellite Design Challenge. This year, QSET will be focusing on system optimization of its rover, and will enter the last year of its bi-annual competition cycle, finalizing the satellite design. These goals are in preparation for the 2021 University Rover Challenge and the postponed 2020 Canadian Satellite Design Challenge.

## QSET TEAM

We are the most technically diverse design team at Queen's University, with students from every engineering and science discipline. QSET is divided into many subteams, which manage the technical, financial, and outreach aspects of each project.



# OUR HISTORY

## **2020 UNIVERSITY ROVER CHALLENGE**

QSET's rover was accepted; however, the competition was cancelled due to COVID-19.

## **2020 CANADIAN SATELLITE DESIGN CHALLENGE**

The competition was postponed until 2021; however, the QSET satellite team will continue its design cycle to meet the adjusted competition timeline.

## **2019**

### **UNIVERSITY ROVER CHALLENGE**

QSET places 2<sup>nd</sup> in all of Canada.

## **2017**

### **UNIVERSITY ROVER CHALLENGE**

QSET maintains its 1<sup>st</sup> place Canadian standing, placing 6<sup>th</sup> out of 82 teams.

### **SATELLITE DESIGN CHALLENGE**

QSET begins its first 3U CubeSat—a two year project to build a satellite.

## **2015**

### **UNIVERSITY ROVER CHALLENGE**

QSET's new Mars Rover improves its standing, placing 16<sup>th</sup> out of 44 competing teams.

## **2013**

### **NASA LUNABOTICS**

QSET builds a lunar mining rover for the NASA Lunabotics competition.

## **2012**

### **QUEEN'S SPACE CONFERENCE**

QSET starts the Queen's Space Conference—the first undergraduate space conference in Ontario.

## **2010**

### **INT'L CANSAT COMPETITION**

QSET places 2<sup>nd</sup> for its rocket payload design.

## **2006**

### **SPACE ELEVATOR COMPETITION**

QSET was founded as an undergraduate-run design team.

## **2018**

### **UNIVERSITY ROVER CHALLENGE**

QSET places 2<sup>nd</sup> in Canada and 12<sup>th</sup> worldwide out of 95 teams.

### **SATELLITE DESIGN CHALLENGE**

QSET finishes its first 3U CubeSat and completes launch qualifications at the Canadian Space Agency.

### **5<sup>TH</sup> MISSION IDEA CONTEST**

QSET presents its CubeSat at the 6<sup>th</sup> annual UNISEC Global Conference at the International Space University as one of two Canadian representatives.

## **2016**

### **UNIVERSITY ROVER CHALLENGE**

QSET becomes the #1 team in Canada and places 2<sup>nd</sup> in North America, scoring 6<sup>th</sup> out of 63 teams.

### **EUROPEAN ROVER CHALLENGE**

QSET places 8<sup>th</sup> out of 22 finalist teams in Poland.

### **SATELLITE DESIGN CHALLENGE**

QSET creates a new design team with the objective to compete at the Canadian Satellite Design Challenge.

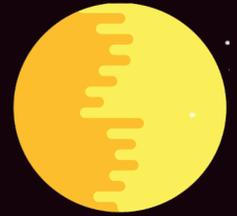
## **2014**

### **UNIVERSITY ROVER CHALLENGE**

QSET's Mars Rover finishes 13 out of 31 teams at its first competition.

# WHY SPONSOR QSET?

QSET is seeking financial and in-kind donations, which will aid in meeting design milestones and attending outreach opportunities in the 2020-2021 academic year. QSET provides a unique opportunity for students to work on a highly multidisciplinary project, and promote engineering education through workshops, presentations, and exhibitions. QSET is able to maintain its competitive standing and community presence through sponsorship and funding opportunities, which help support operations and design goals. We welcome new partners into our network during this exciting time.



## OUTREACH & PRESENCE

Throughout its 10 years of operation, QSET has developed an extensive outreach network which has reached thousands of people from the general public to promote STEM education and engineering collaboration in several areas:



**LOCALLY IN KINGSTON** by participating in community and university-run showcases, and by running workshops with elementary and secondary school students.

**NATIONALLY ACROSS CANADA** through presentations at conferences and participating in Canadian space institutions.

**INTERNATIONALLY REPRESENTING CANADA** in events such as UNISEC-Global to share ideas, and through our competitions to display the results of our work—achieved through the help of our sponsors.

COVID-19 will change traditional approaches to collaboration and education, from the children we teach to the students on our team.



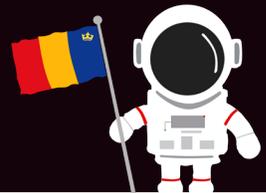
# SPONSORSHIP BREAKDOWN

QSET highly values its sponsors and feels that it is important to maintain strong relationships. We are committed to giving you a sponsorship package that suits your needs, and provides access to our best talent, our professional network, and information on our critical design and competition milestones.

TIERS	BRONZE	SILVER	GOLD	PLATINUM
	< \$100	\$100 - \$499	\$500 - \$999	\$1,000 +
Team Updates	●	●	●	●
Logo on Website	●	●	●	●
Logo on Team Uniforms		●	●	●
Logo on Mars Rover and Satellite			●	●
Access to the team's CV book			●	●
Access to Design Review Workshops			●	●
Largest Visibility Logos				●
Invitation to our Design Team Showcase				●

# CONTACT US

To learn more about QSET please visit [www.qset.ca](http://www.qset.ca) or feel free to contact us with any questions or concerns. Thank you for your consideration and we look forward to hearing back from you!



## CONTACT INFORMATION

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