



SPACE ROBOTICS CHALLENGE

PHASE 2

FREQUENTLY ASKED QUESTIONS

Presented by **BHP**

TABLE OF CONTENTS:

[1.0 REVISIONS SUMMARY](#)

[2.0 WHAT](#)

[3.0 WHERE](#)

[4.0 WHO](#)

[5.0 WHY](#)

[6.0 HOW](#)

1.0 REVISIONS SUMMARY:

<u>Section</u>	<u>Revision #</u>	<u>Description</u>	<u>Date</u>
	0	Original Document	08/12/2019
5	1	Insurance Information	08/30/2019

2.0 WHAT:

Q: What is the goal of the Space Robotics Challenge Phase 2 (SRC2)?

A: The goal of SRC2 is to advance the science of robotic autonomy. Self-driving vehicles on Earth can use complex positioning systems in concert with highly precise sensing technology, all supported by advanced computer algorithms. Off world, on the Moon or Mars, no global positioning technology exists, vision systems must contend with wholly different environments and computer processing power is severely constrained. Hence the need for innovative programming solutions that can allow for meaningful autonomy for robotics supporting or supplementing human operations.

Q: What are the important dates for SRC2?

A:

<u>Date/Deadline</u>	<u>Event</u>
August 12, 2019 9:00 AM Central Time	Challenge Opens for Registration
December 20, 2019 5:00 PM Central Time	Challenge Registration Closes
January 15, 2020 5:00 PM Central Time	Packet of Robot Information Delivered to Competitors
March 16, 2020 9:00 AM Central Time	Qualification Round Opens

August 19, 2020 5:00 PM Central Time	Qualification Round Closes (simulation code due)
November 9, 2020 9:00 AM Central Time	Qualification Round Winners Announced
December 7, 2020 9:00 AM Central Time	Competition Round Opens
June 30, 2021 5:00 PM Central Time	Competition Round Closes (simulation code due) & Electronic Summary due
September 13, 2021	Winners Announced at live Space Center Houston Event

Q: What awards are available to competitors?

A: A prize purse of up to \$1,000,000 USD will be awarded across two rounds of competition:

Qualifying Round - Awards:

The Top 25 scoring competitors in the Qualification Round that meet or exceed a given threshold score, will be awarded prizes from a purse of \$375,000 USD. Only the Top 25 scoring competitors will be invited to compete in the Competition Round.

Competitors will be able to win a maximum of \$15,000 USD. Should a competitor not complete all required tasks, but still be in the Top 25 scoring competitors that meet or exceed a given threshold score, a percentage of the \$15,000 will be awarded based on the percentage of the trial that was completed.

Competition Round - Awards:

The Top 10 scoring competitors in the Competition Round that meet or exceed a given threshold score, will be awarded prizes from a purse of \$625,000 USD.

- First Place: \$185,000 USD
- Second Place: \$125,000 USD
- Third Place: \$75,000 USD
- Fourth Place: \$50,000 USD
- Fifth Place: \$40,000 USD
- Sixth through Tenth Place: \$30,000 USD each

3.0 WHERE:

Q: Where can I find important documents related to SRC2?

A: Please visit www.spaceroboticschallenge.com for all Challenge information, including Challenge Rules, Competitor Packets, and the Challenge Timeline.

Q: Where will the final event take place?

A: The Final Event will take place at Space Center Houston in Houston, Texas. At the final event, the winners of Competition Round will also be announced.

4.0 WHO:

Q: Who is conducting SRC2?

A: NASA Centennial Challenges program is providing the \$1,000,000 USD prize purse and has partnered with Space Center Houston / Manned Space Flight Education Foundation Inc. to develop and conduct this Challenge. The U.S. Army Engineer Research & Development Center is also supporting the Challenge through contributing Subject Matter Experts.

Additionally, Space Center Houston / Manned Space Flight Education Foundation Inc. has recruited the following support:

- Presenting Sponsor - BHP (an Australian mining company)
- Challenge Coordinator - NineSigma North America

Q: Who is BHP?

A: BHP is a resources company based in Melbourne, Australia, that extracts and processes minerals, oil and gas for distribution worldwide. They have joined with Space Center Houston to sponsor the second phase of the Space Robotics Challenge because they are interested in adapting technology developed for space-based applications to terrestrial work such as resource identification, location and collection to improve the speed, efficiency and safety of their operations.

Q: Who can I contact for more information about SRC2?

A: All questions related to participating and/or competing in the Challenge should be sent to info@spaceroboticschallenge.com.

Questions sent to any other email address or individual will not be addressed.

Media inquiries should be directed to:

Jenalane Rowe – jenalane.rowe@nasa.gov
NASA Centennial Challenge
+ 1 256-544-5022

Meridyth Moore - mmoore@spacecenter.org
Space Center Houston
+1 281-244-2139

5.0 WHY:

Q: Why do I need insurance for a virtual challenge?

A: The U.S. Government requires all individuals and entities involved in challenges of this type to have adequate insurance coverage. While it is unlikely that an incident resulting in injury will occur during this Challenge, competitors are obligated to abide by existing U.S. Government guidelines.

Q: Why is NASA sponsoring this Challenge?

A: NASA's goals for this Challenge are twofold: 1) to advance the science of off-world autonomous robotics and 2) to engage with the global community of experts for the advancement of space exploration.

Q: Must the Insurance Coverage document be in English?

A: Competitors will need to provide the main information from the insurance in English so that NineSigma Challenge Administrators can check it against the requirements. Competitors should ask their insurance provider for English versions of their paperwork. If not, a machine translation is fine (e.g. Google Translate). We do not require a legal document-level official translation.

6.0 HOW:

Q: How do I enter as a competitor for SRC2?

A: First, visit www.spaceroboticschallenge.com and download the Competitor Packet. Then, use the Registration Form link on the Challenge page to upload your packet and appropriate documentation. When your registration has been reviewed and approved, you will receive an email notification from info@spaceroboticschallenge.com to confirm.

Q: How can I determine if I am eligible to participate in SRC2?

A: SRC2 is open to individuals and teams from around the globe, with some restrictions.

No individual competitor shall be a citizen of a country on the NASA Export Control Program list of Designated Countries List Category II: Countries determined by the Department of State to support terrorism. The current list of designated countries can be found at <http://oiir.hq.nasa.gov/nasaecp>. Please check the link for latest updates. This includes individuals with dual citizenship unless they are a U.S. citizen or a lawful permanent U.S. resident (green card holder).

While China is not a Category II designated country, pursuant to Public Law 116-6, Section 530, NASA is prohibited from participating, collaborating, or coordinating bilaterally in any way with China or any Chinese-owned entity. Team members who are citizens of China but not affiliated with a Chinese entity may be permitted to participate on a Team.

Subject to the conditions set forth herein, foreign nationals and foreign national teams can participate in the Challenge. However, they are not eligible for a cash prize, and must acknowledge acceptance of this by signing and submitting a Foreign Participant Acknowledgement Form.

Interested competitors should refer to the Official Challenge Rules for full details on the eligibility criteria (including requirements for foreign participation) for participating in the challenge and being eligible to receive a prize.