
Two teams selected for CAN-SBX 2022-23

February 28, 2023

Toronto, ON: Students for the Exploration and Development of Space (SEDS-Canada) has selected two teams for the 2022-23 [Canadian Stratospheric Balloon Experiment Design Challenge \(CAN-SBX\)](#). The competition challenged post-secondary students attending Canadian universities to submit a proposal for a small scientific payload to be launched onboard the [Canadian Space Agency's](#) (CSA) high altitude balloon, capable of taking the payloads up to Earth's stratosphere. Experiments tested using this platform come from a variety of fields, including astrophysics, atmospheric sciences, biology, and remote sensing.

This year's challenge will be the third to take place onboard the new CSA's expandable balloon platform. Students will design, build, and test their scientific payloads. With the help of CSA engineers, students will then integrate and launch their payloads. In addition to technical and project management skills, students will gain experiences, including launch and recovery operations, needed to lead balloon launches from their home institutions. By participating in CAN-SBX, students will also have an opportunity to present their research to the public and make valuable connections within the Canadian space industry.

The selected teams include:

- **Team StratoNeers** from the **University of British Columbia Okanagan** is testing hardware protective techniques to mitigate the occurrence of bit flips due to cosmic radiation in computer's binary code. This experiment would provide new insights into protective techniques to safely store data onboard satellites, rovers, and space telescopes. [Team media contact: [Abrar Mahir](#)]
- **D Gremlin Kings** from **Carleton University** is studying the impact of the hostile environment of the stratosphere on microorganisms. This project has applications in astrobiology and utilizing microorganisms during long-duration space travel. [Team media contact: [Kyla Malo](#)]

The two teams must now complete the next phase of their project, the Preliminary Design Review, which they will present to SEDS-Canada and experts in stratospheric balloon sciences from the CSA. After finalizing their designs, the teams will build their experiments in order to submit the next milestone, the Critical Design Review. The experiments will then be integrated to the stratospheric balloon in preparation for the Launch Campaign tentatively scheduled for August/September 2023.

About SEDS-Canada

SEDS-Canada is a national, student-run, non-profit committed to supporting and empowering students interested in space, advancing the Canadian space sector, and advocating for peaceful exploration and development of space. **Join us** as an industry partner! Please contact us for sponsorship opportunities.

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