UBC MARS COLONY

SPONSORSHIP GUIDE

2022-2023

Inside:

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About Us

The University of British Columbia's **Mars Colony** is a student team dedicated to designing the infrastructure needed to settle on Mars. The multidisciplinary engineering challenges we work to solve involve the collaborative efforts of over 25 students from 15 different programs. We provide students with hands-on experience in engineering design and manufacturing far outside typical lecture material. The team cultivates excellence in industry-relevant areas such as CAD design with SolidWorks, machining, control algorithm integration, circuit design, materials testing, mathematical modelling, and much more.

Message from the Captains

We would like to thank our sponsors for their contributions. We're proud of our team's accomplishments, and we greatly appreciate all the opportunities we've had because of your help. We're keeping our eyes on that tiny red dot on the horizon, and we're hoping you'll join us on the journey to get there.

Alyona Glazyrina & Dagan Schoen

Our Previous Projects

Mars Expandable Airlock

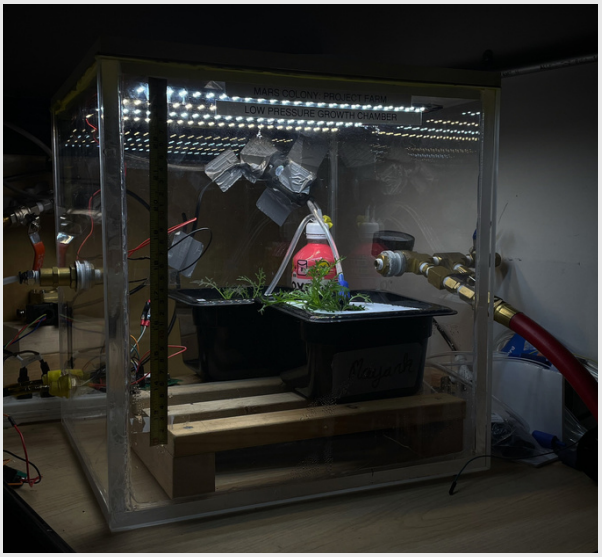
Our inaugural project was to design, prototype, and manufacture a fully functional and collapsible airlock.

For more information, *click here*

HELIOS

The Helios Project aimed to design a system to harvest and process Helium-3 on the Moon. The He-3 on the Moon can serve as clean fuel for nuclear fusion.

For more information, *click here*



Feeding All Required Martians (FARM)

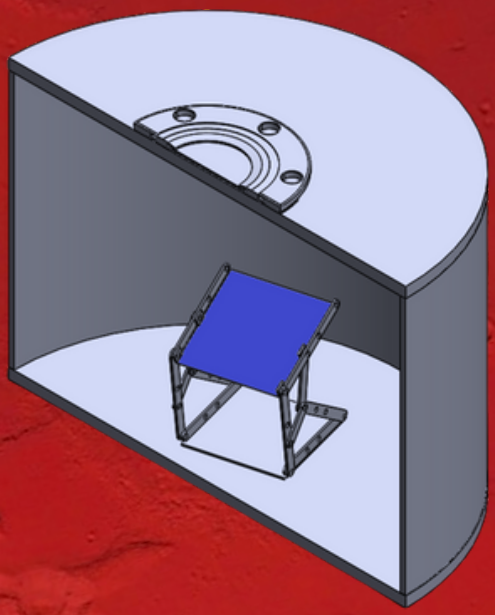
An ambitious project aimed at designing a low-pressure growth chamber to investigate the feasibility of growing plants at Martian surface pressures.

For more information, *click here*

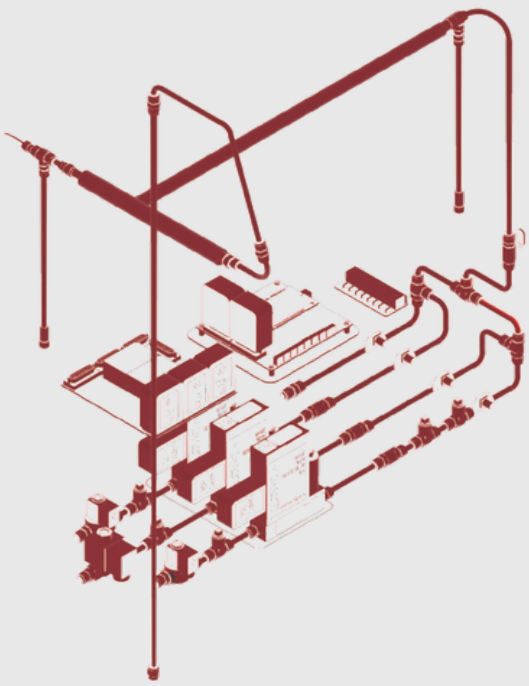
Our Current Projects

Mars Atmosphere Simulation Chamber

The Mars Atmosphere Simulation Chamber will allow us to test our products in a Martian environment, on Earth. We're going to need fasteners and structural components for the refrigeration and atmospheric systems, as well as electrical sensors to monitor the pressure, temperature, and humidity inside the chamber.



Sabatier Fuel Plant: Phase II



The Sabatier Fuel Plant project aims to solve the problem of creating fuel on Mars. The first phase of the project has already been completed,. We presented the reactor during the Student Competition at the 73rd International Astronautical Congress (2022) in Paris, France. Our reactor produces methane using the Sabatier reaction. Now, we are investigating the effects of catalyst storage on the efficacy of the reaction. We'll need to conduct BET and SEM tests on the reactor's output, and we're also improving the efficiency of our system.

What You Are Supporting

Research & Development

The design and development of new cutting-edge technologies requires materials, tooling, and expertise. Your contributions will allow us to purchase materials and equipment, and get the training we need to conduct our research safely and effectively.

Travel to Conferences

Presenting our research to the world often involves travelling internationally to conferences and other large gatherings of engineers, researchers, and scientists. We aim to help all members who are interested in attending to go, but these memorable trips are often expensive for a student's budget.

Sponsor Benefits

With your support, we are confident that we can achieve our goals and help create the technologies of the future. Both monetary and non-monetary support is recognized and greatly appreciated by the team. We recognize the generosity of our sponsors through the following means, grouped into three tiers. We are happy to discuss other arrangements as well.

	White Up to $1000	Red $1000 - $2500	Gold More than $2500
Company Logo Displayed on Website	 **Small**	 **Medium**	 **Large**
Social Media Shoutout	 **x 1 (Story)**  **x 1** **x 1**	 **x 2 (Story)**  **x 1 (Post)**  **x 1** **x 1**	 **x 1**  **x 3 (Story)**  **x 1 (Post)**  **x 1** **x 1**
Presentation Shoutout (Both conferences and UBC design team events)	 **Small**	 **Medium**	 **Large**
Business Acknowledgement by UBC			
Exlusive Tours			

Contribute Today

If you'd like to make a difference today, becoming a sponsor of our team is easier than ever! By clicking on our personalized sponsor link below you will be able submit a donation online that will be directly routed to our team's account.

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(https://donate.give.ubc.ca/page/80953/donate/1?transaction.dirgift=UBC+Mars+Colony%20G2316)

If you organization would prefer to pay by cheque, please address the envelope as shown here:

Attention: Ana Merino
UBC Development - Faculty of Applied Science
David Strangway Building
500 - 5950 University Blvd, Vancouver BC V6T 1Z3

Additional payment options are available (by phone, wire transfer, EFT, etc.) and can be accommodated.

Please reach out directly to our team or to *team.sponsorship@apsc.ubc.ca* for more information.

Thank you for considering to become a sponsor!