Canadian Space Agency - Deep Space Food Challenge

Sponsor

Canadian Space Agency (CSA)

Program

Deep Space Food Challenge

For More Information

For full details on the CSA-managed competition webpage, visit impact.canada.ca [1].

Description

The Deep Space Food Challenge is a prize competition run in parallel by the Canadian Space Agency (CSA) [2] and the National Aeronautics and Space Administration (NASA). The goal of the challenge is to advance food production technologies to support long-duration space missions and to improve accessibility of nutritious foods across Canada, including the North. The Canadian component of the Deep Space Food Challenge is intended to incentivize Canadian innovators to advance food production technologies to support long-duration missions in space and to improve the accessibility of nutritious food across Canada, including the North.

Eligibility

The competition is open to all Canadian organizations and innovators, including in the food and agriculture sector. Read more about eligibility details here [3]

Funding Availability

Up to CAD $1.08 million in total will be awarded in grant funding to Canadian semi-finalists, finalists and the grand prize winner of the Deep Space Food Challenge:

Phase	Number of Canadian winners per phase	Prize amount per winner
Phase 1 - Design Report	Up to 10 semi-finalists	CAD $30,000
Phase 2 - Kitchen Demonstration	Up to 4 finalists	CAD $100,000
Phase 3 - Full System Demonstration	1 grand prize winner	CAD $380,000

Note: The number of winners and Canadian prize amounts may vary depending on the applications received. For each phase, prize amounts will not be less than the amount per winner indicated above.

Special Notes

Please note that research activities carried out in the context of COVID-19 need to adhere to the University of Guelph COVID-19 research principles, policies, guidelines and processes as they may be updated from time to time and communicated on the Office of Research web-page [4].

Deadlines

If College-level review is required, your College will communicate its earlier internal deadlines.

Type	Date	Notes
External Deadline	Tuesday, February 23, 2021 - 12:00pm	Bioenterprise Corporation, in collaboration with Zone Agtech and the Canadian Space Agency, is hosting a webinar for Canadian innovators, to answer questions about the DSFC. We will cover: • Challenge phases & timeline; • Eligibility criteria; • Advantages & benefits of applying Register for the Webinar [5]
Internal Deadline	Friday, July 16, 2021 - 4:30pm	Applicants must submit a complete copy of their Phase 1

Type	Date	Notes
		application along with a signed OR-5 form to resserv@uoguelph.ca [6]
External Deadline	Friday, July 30, 2021 - 6:00pm	Phase 1 Application Form [7] must be submitted to CSA.

How to Apply

The Deep Space Food Challenge is a stage-gated challenge and is expected to be comprised of three phases:

- Phase 1: Design Report – Challenge launched on January 12, 2021. Applications are open until July 30, 2021. Teams will provide a detailed explanation of a design for a novel food production technology that meets the Challenge goals and performance criteria.
- Phase 2: Kitchen Demonstration – Beginning in Fall 2021, Semi-Finalists selected in Phase 1 will move on to Phase 2, where they will need to build a food production technology prototype (equivalent to a TRL 4 Footnote [8]1 [8]) and have their prototype take part in a Kitchen-Level demonstration with samples of food outputs. Those who are successful in this phase will move on as a Finalist in Phase 3.
  Note: New interested Applicants may be able to apply and participate directly in Phase 2. Further details will be provided prior to the launch of Phase 2.
- Phase 3: Full System Demonstration – At this stage, selected Finalists will have 12-18 months to build a full-scale food production technology and demonstrate the technology at an appropriate facility, and will be competing to be the Grand Prize Winner of the Challenge.
- Canadian Grand Prize Winner for The Deep Space Food Challenge – announced in Spring 2024.

For details on How to Apply in each Phase, please see the Applicant Guide [9].
For Questions, please contact
For any questions or clarifications regarding The Deep Space Food Challenge, please contact the Canadian Space Agency team: ASC.DefiAEL-DSFChallenge.CSA@canada.ca [10].

It is the responsibility of the applicants to obtain clarification of the requirements contained herein, if necessary, before submitting an application. Updates will be provided on the Impact Canada website, including the latest Challenge news and frequently asked questions (FAQs).

Office of Research

Angela Vuk, Senior Grants and Contracts Specialist
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Alert Classifications**Category:**
Funding Opportunities and Sponsor News

Disciplines:
Health and Life Sciences
Information and Communications Technology
Physical Sciences and Engineering

Source URL:https://www.uoguelph.ca/research/alerts/content/canadian-space-agency-deep-space-food-challenge

Links
[1] https://impact.canada.ca/en/challenges/deep-space-food-challenge
[2] https://bioenterprise.us7.list-manage.com/track/click?u=64efdb031559d22be2130ab65&id=d770be97b8&e=8c5a9155ca
[3] https://bioenterprise.us7.list-manage.com/track/click?u=64efdb031559d22be2130ab65&id=c63697d24f&e=8c5a9155ca
[4] https://www.uoguelph.ca/research/
[5] https://www.communauteagtech.ca/en/evenements/register/deep-space-food-challenge-launch-webinar/20955#event_content_box
[6] mailto:resserv@uoguelph.ca
[7] https://impact.canada.ca/sites/default/files/2021-01/DSF-reference-en_0.pdf
[8] https://impact.canada.ca/en/challenges/deep-space-food-challenge?mc_cid=055614b5f2&mc_eid=8c5a9155ca#fn1
[9] https://impact.canada.ca/en/challenges/deep-space-food-challenge/application-guide#4
[10] mailto:ASC.DefiAEL-DSFChallenge.CSA@canada.ca
[11] mailto:avuk@uoguelph.ca