

Food Waste Reduction Challenge – Streams C & D - Application Form

Which Challenge Stream Should you Apply to?

Try our [interactive tool](#) to help you identify which stream is the best fit for your solution

Section 1 – Applicant Details

1.1 Title of your proposed solution

1.2 Describe your solution in one sentence using clear and simple language (written to a non-technical audience, may be made public)

Limit of 200 characters.

1.3 Lead Organization/Group: Enter the information of the organization that is leading the solution and which will receive prize funding if the solution is successful in the challenge

1.3.1 Legal Name of Organization/Group

1.3.2 Organization Operating as

1.3.3 Address:

1.3.3.1 Street

1.3.3.2 City

1.3.3.3 Province

1.3.3.4 Country

1.3.3.5 Postal Code

1.3.4 Mailing Address (if different than address above)

1.3.5 Organization/Group website URL (if available)

1.4 Confirm the applicant category that applies to you:

- Businesses or other for-profit organizations incorporated in Canada;
- Not-for-profit organizations incorporated in Canada;
- Indigenous organizations and groups located in Canada;
- Post-secondary/academic institutions located in Canada;
- Individuals or group of individuals based in Canada;
- Non-Canadian-based businesses or other for-profit organizations;
- Non-Canadian-based not-for-profit organizations;
- Non-Canadian-based post-secondary/academic institutions;
- Non-Canadian-based individuals or group of individuals.

1.5 If you are not an incorporated organization in Canada, please confirm that you are willing to incorporate in order to receive financial prizes for the Challenge. (*If you answer no to this question, you will not be eligible to receive a prize.)

- Yes No Already incorporated in Canada

1.5.1 Business, Charity, Non-Profit Registration Number (if available)

1.6 Contact Person for the Team:

1.6.1 Full Name

1.6.2 Job Title

1.6.3 Organization

1.6.4 E-mail Address

1.6.5 Telephone Number

1.6.6 Preferred language of communication: English French

1.7 [Optional] Additional Contact Persons (maximum 2)

	Full Name	Job Title	Organization	E-mail Address
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1.8 If you are collaborating with other organizations to develop your solution, list them below and briefly indicate their role in the solution development process, if applicable

	Organization	Role
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Section 2 – Proposed Solution Details:

2.1 Stream Selection. Please indicate under which stream you are applying:

- Stream C: Technologies that Extend the Life of Food
- Stream D: Technologies that Transform Food Waste

2.1.1 STREAM C: Which category fits best the type of technology you are developing? If your solution falls into multiple categories, please select the primary category.

- Edible coating and natural additives solutions
- Non-Edible packaging solutions
- Food treatment solutions (e.g. thermal, non-thermal, hurdle technology)
- Food processing approaches
- Gene editing
- Other. Specify: _____

2.1.2 STREAM D: Which category fits best the type of technology you are developing? If your solution falls into multiple categories, please select the primary category.

- Transformation into food/food ingredient for humans
- Transformation into feed or feed ingredients for animals/insects
- Transformation into non-food products or input for non-food applications

2.2 Why your solution? This is your elevator pitch to convince the jury why your technology should be selected in the challenge. In your pitch, you should use brief, concise, non-technical, and simple language to describe your proposed technology, how it works, and its comparative advantage over existing technologies.

Limit of 1,500 characters.

2.3 Why you? Tell us about yourself, your background, what brought you to work on your proposed solution and why you are the one who is going to advance this solution (e.g. include information about your skills and/or partners).

Limit of 1,500 characters.

2.4 [Innovation] Describe in detail how your technology works to achieve the intended outcomes.

- For Stream C: You should explain how your technology extends the life of food.
- For Stream D: You should explain how your technology transforms food waste into other products.

Limit of 3,000 characters.

[Optional Attachment] You can attach one (1) visual illustrating the functionality of your technology (for example, visual representation of solution components).

2.5 [Innovation] Describe how your technology or its application is different from existing solutions.

Limit of 2,000 characters.

2.6 [Applicability and Scalability] The following questions are related to the assessment criteria on applicability and scalability.

2.6.1 Describe in detail how your technology can be applied and integrated within the food system (from farm to plate) and how scalable this application can be (e.g. include type of food, location on the supply chain, integration into existing processes).

Limit of 3,000 characters.

[Optional Attachment] You can attach one (1) visual illustrating the process for how your technology is integrated within the food system (for example, process, flow or steps diagrams).

2.6.2 What categories of foods are covered by your technology? Select all that apply.

- For Stream C: Indicate which food category will have a longer shelf-life after application of your technology.
- For Stream D: Indicate which food category your technology will divert and transform food waste into other products.

- Dairy and Eggs (e.g. milk, cheese, eggs) Meat, poultry, seafood
 Produce and field crops (e.g. fruits, vegetables, nuts, beans, grains)
 Processed food (e.g. bakery products) Other. Specify: _____

2.6.3 Where in the food supply chain can your technology be applied? Select all that apply.

- Primary Production (e.g. farm) Handling and Storage (e.g. post-harvest)
 Food Processing and Manufacturing Transport and Distribution
 Grocery Retail Food Service (e.g. restaurants, institutions such as hospitals, school cafeteria)
 Households and Consumers Other. Specify: _____

2.7 [Technology Effectiveness] The following questions are related to the assessment criterion on technology effectiveness.

- For Stream C: Increase in shelf life in both absolute values (i.e. number of days) and relative values (i.e. percentage increase)
- For Stream D: Effectiveness and efficiency of the technology in producing output from input (i.e. yield output/input and other relevant indicators)

2.7.1 How do you plan to measure the technology effectiveness of your solution?

Limit of 1,500 characters.

2.7.2 What are your estimated/target technology effectiveness measures when your solution is applied in an operational environment?

Limit of 1,500 characters.

2.8 [Commercialization] The following questions are related to the assessment criterion on commercialization.

2.8.1 What is the current status of your technology? What is its [Technology Readiness Level \(TRL\)](#)? What is your timeline to develop a prototype and get it ready for testing in an operational environment?

Limit of 1,500 characters.

2.8.2 Did you test your idea or prototype with target users of your technology? What sort of feedback/response did you get from those potential users?

Limit of 1,500 characters.

2.8.3 What potential challenges to commercialization do you anticipate and how can you address them to reach your goal?

Limit of 1,500 characters.

2.8.4 Are there regulatory considerations to your solution that would impact the path to commercialization? What are they and how can you address them?

Limit of 1,500 characters.

2.9 [Economic assessment of solution] The following question is related to the economic assessment of your solution.

2.9.1 What is the economic case for your solution? Include analysis of economic and financial benefits of using your solution compared to costs associated with technology development and deployment.

Limit of 3,000 characters.

2.10 [Environmental assessment of solution] The following questions are related to the environmental assessment of your solution.

2.10.1 What environmental benefits are expected to be created by the solution?

Limit of 1,500 characters.

2.10.2 What environmental risks do you anticipate and how will you mitigate them?

Limit of 1,500 characters.

2.11 [Potential for Food Waste Reduction] Based on your own analysis, how does your technology contribute to reducing food waste?

Limit of 600 characters.

2.12 [Food Safety and Food Properties] This question is relevant to all applicants except applicants in Stream D who are transforming food waste into non-food products. If this question does not apply to you, please enter "Not Applicable" in the text box below:

2.12.1 How does your technology impact the food safety and properties of your food output?

Food properties include but are not limited to appearance, taste, chemical properties, and nutritional value.

Limit of 3,000 characters.

Section 3 – Attachments and Declaration

[Optional Attachments]

1. Visual illustrating the functionality of your technology (for example, visual representation of solution components) *(Max: 1 file)*
2. Visual illustrating the process for how your technology is integrated within the food system (for example, process, flow or steps diagrams) *(Max: 1 file)*
3. Confirmation of legal entity and/or not-for-profit status *(Max: 1 file)*
4. Letters of support from partners *(Max: 3 files)*

Do you have any amounts owing to the Government of Canada?

Yes No

Are there any paid lobbyists working on your behalf?

Yes No

By checking the below boxes, I acknowledge the following:

- I have read and accepted the terms and conditions in the applicant guide.
 I have read and accepted the Conflict of Interest policy in the applicant guide.

I acknowledge that by submitting this challenge application form I agree to the following:

Use and/or Disclosure

The personal and/or business information in, accompanying and/or submitted in support of this application is being collected under the authority of the [Department of Agriculture and Agri-Food Act](#) and may be used by AAFC, or disclosed to third parties including other Government Departments, to:

- assess and review the eligibility of the Applicant and the Solution under the applicable AAFC program;
- verify the accuracy of the information provided in or with the application form and additional documents;
- determine eligibility for other AAFC, Government of Canada or provincial programs from which the Applicant might benefit;
- assess the efficiency of the challenge model in furthering departmental priorities; and
- evaluate the scope, direction and effectiveness of agricultural programming and research in Canada.

The Applicant consents that the information may also be used for the purposes of: contacting you should additional information be required; validating your credentials; facilitating payment of the grant in the event your application is successful; program administration; and evaluation, reporting, and statistical analysis.

Personal information will be treated and disclosed in accordance with the [Privacy Act](#). You have the right to access your personal information held by Agriculture and Agri-Food Canada and to request changes to correct personal information by contacting the AAFC Access to Information and Privacy Director at aafc.atip-aiprp.aac@canada.ca

Business information will be disclosed only in accordance with the provisions of the [Access to Information Act](#).

Information on the *Privacy Act* and the *Access to Information Act* is available at the following website: <http://laws.justice.gc.ca>. For further information about these Acts please contact the Access to Information and Privacy Director at aafc.atip-aiprp.aac@canada.ca.

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Submit application

Section 4 – Survey [Optional]

Thank you for taking the time to complete this short survey about your recent experience as an applicant to an Impact Canada challenge.

The purpose of this survey is to gather your insights as an applicant to help us improve the design of future challenges so that they can more effectively stimulate innovation.

This survey is **confidential**. The data collected in this survey will be aggregated to help us understand what works in a challenge, and what to improve in future challenge design. No individual answers will be published.

Your answers to this survey will not be used in the assessment process and will not affect your chances of success in this challenge or any other federal funding application.

4.1 How did you first hear about the challenge?

- News outlets/news websites
- E-mail announcement of the challenge
- Social media posts by government
- Direct contact from government representative via social media, e-mail or others
- Networks related to the subject matter of the challenge (e.g. food waste)
- Networks related to innovation or entrepreneurship
- Impact Canada website
- Other method, specify: _____

4.2 Which of the following incentives motivated you to participate in the challenge? Select all that apply.

- The chance to work on a tough problem or something I care about
- The chance to test out a new idea
- The prize money (financial support)
- Mentoring and skill development
- Access to facilities or equipment (labs, testing facilities, industrial assistance, etc...)
- Media exposure
- Recognition of achievement by the government
- Opportunity to build collaborative partnerships
- Other incentive, specify: _____

4.3 In the past, have you ever applied for a Government of Canada grant or contribution program (other than this challenge)?

Yes No

If yes:

- a. **Relative to your experience with other Government of Canada funding applications, how easy or difficult did you find the challenge application?**
 - A lot easier
 - Somewhat easier
 - About the same

- Somewhat more difficult
 - A lot more difficult
 - Not applicable
- b. Approximately how many grants or contributions have you received from the Government of Canada over the past five years?**
- None
 - 1 or 2
 - 3 to 5
 - More than 5
- c. Approximately what was the total aggregate value of the grants and contributions you have received from the Government of Canada over the past five years?**
- less than \$10,000
 - between \$10,001 and \$50,000
 - between \$50,001 and \$150,000
 - between \$150,001 and \$300,000
 - between \$300,001 and \$500,000
 - between \$500,001 and \$1,000,000
 - over \$1,000,001
 - don't know

The following questions will help us to better interpret your responses to this survey. Rest assured that any data collected will strictly be used to help us understand whether and how challenges are an effective tool, and to help us improve upon their design in the future. No information that could potentially identify you or your responses to this survey will be released.

4.4 Where are you based?

- Canada
- International (outside Canada)

If based in Canada:

- a. What is the postal code for your business headquarters? (May be used to track geographic distribution of applicants with respect to urban, rural and remote populations)**

If applicable: _____

4.5 Which applicant category applies best to you?

- Individual or group of individuals
- Business in the private sector
- Not for profit sector (including charities and non-profits)
- Academic organization
- Government organization (federal, provincial/territorial, regional or municipal)
- Indigenous community (e.g., First Nation band, Tribal Council or community under a Self-Government Agreement, Comprehensive Land Claim Agreement or the Métis Nation)
- Public utility
- Other, specify: _____

If applicant is “Business in the private sector” or a “not for profit”,

a. Please confirm your business number/charitable registration number.

If applicable: _____

4.6 Is your business majority (i.e. over 50%) owned by individuals who self-identify as:

- Women
- Men
- Non-binary, gender fluid or two-spirit
- Prefer not to answer/do not know
- Other (Please specify: _____)

4.7 Is your business majority (i.e. over 50%) owned by individuals who self-identify as an Indigenous person(s):

- Yes, Indigenous person(s)
- No, not Indigenous person(s)

If yes, please select the options that the majority owners of your business identify with (check as many as apply):

- First Nations (First Nations includes Status and Non-Status Indians)
- Inuit
- Métis
- Prefer not to answer/do not know
- Other (Please specify: _____)

4.8 Is your business majority (i.e. over 50%) owned by individuals who self-identify as (check as many as apply):

Person(s) who are from a visible minority group (other than Indigenous). If yes, please select the options that the majority owners of your business identify with (check as many as apply):

- South Asian (e.g., East Indian, Pakistani, Sri Lankan, etc.)
- Chinese
- Black
- Filipino
- Latin American
- Arab
- Southeast Asian (e.g., Vietnamese, Cambodian, Laotian, Thai; etc.)
- West Asian (e.g., Iranian, Afghan, etc.)

- Korean
- Japanese
- Another visible minority group – please specify: _____
- Prefer not to answer/do not know

- Person(s) living with a disability (e.g. physical, mental, or other long-term condition)
- Person(s) not born in Canada
- Person(s) who are recent immigrants to Canada (e.g. landed in Canada in the last 5 years)
- Person(s) living in an official language minority community
- Youth (30 years old or under)
- Other diverse group (please describe): _____
- Prefer not to answer/do not know

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