GRInSTEM Application – Reference Document

Thank you for your interest in applying for a GRInSTEM Fellowship.

Applications are received on an on-going basis.

This document provides the full list of questions you will find in the application form and is to be used as a reference to help you prepare your application.

Do not include any confidential information about your business venture. Do not include any confidential information about any intellectual property, technologies, products, or services that will be commercialized by your business venture.

Note: All text box fields are set to a 500-word maximum. Please keep this in mind when developing your responses.

Applicant Information

Salutation

First Name:

Last Name:

Address:

City:

Province:

Postal Code:

Email:

Phone Number:

Degree:

Institution:

Graduation Date:

Legal Company Name (if you have an incorporated company, please provide its legal name).

Was the technology developed at the University of Calgary?
>	Yes
>	No

If yes, have you submitted an Invention Disclosure to Innovate Calgary?

If no, it is recommended that you submit an Invention Disclosure to Innovate Calgary before submitting your GRInSTEM application. Visit: www.innovatecalgary.com

Are you in Canada on a student work permit/visa? If so, when will it expire?

Have you started the process of acquiring a work permit/visa? What are the expected timelines? Enter N/A if not relevant.

Technical Mentor Information

Please provide contact information for your intended technical mentor. Your technical mentor should be a faculty member at the University of Calgary who can guide the development of your technology and is willing to grant you lab facility access for the program's duration.

Do you have a technical mentor?
>	Yes
>	No

Technical Mentors First Name:

Technical Mentors Last Name:

Job Title:

Organization/Institution:

Phone Number:

Email:

Project Overview

Project Title:

Briefly describe your project. (500 words)

What problem does your technology solve? (500 words)

Provide a technical overview of your solution and the underlying science. (500 words)

Provide an overview of similar technologies and describe what makes your technology novel. (500 words)

Which of the following describes your current Technology Readiness Level (TRL)?

      Level 1: Basic principles of concept are observed and reported
      Level 2: Technology concept and/or application formulated
      Level 3: Analytical and experimental critical function and/or proof of concept
      Level 4: Component and/or validation in a laboratory environment
      Level 5: Component and/or validation in a simulated environment
      Level 6: System/subsystem model or prototype demonstration in a simulated environment
      Level 7: Prototype ready for demonstration in an appropriate operational environment
      Level 8: Actual technology completed and qualified through tests and demonstrations
      Level 9: Actual technology proven through successful deployment in an operational setting

What is your expected TRL level at the end of the two-year program?

      Level 1: Basic principles of concept are observed and reported
      Level 2: Technology concept and/or application formulated
      Level 3: Analytical and experimental critical function and/or proof of concept
      Level 4: Component and/or validation in a laboratory environment
      Level 5: Component and/or validation in a simulated environment
      Level 6: System/subsystem model or prototype demonstration in a simulated environment
      Level 7: Prototype ready for demonstration in an appropriate operational environment
      Level 8: Actual technology completed and qualified through tests and demonstrations
      Level 9: Actual technology proven through successful deployment in an operational setting

Market

Describe the target markets for your technology. Who are your target customers? Who will pay for your solution? (500 words)

Who are your main competitors, and why? (500 words)

Outline why customers would choose your solution over your competitors. (500 words)

Intellectual Property

Describe the IP status of the technology. (500 words)

Origin of the IP. Who currently controls or owns the rights to the IP? (500 words)

Provide an outline of your projected, expected, or completed course of action to access the relevant IP (pre-existing and newly developed). (500 words)

Do you anticipate that new IP will be generated during the two-year program? If yes, please describe. (500 words)

Project Team and Project Plan

Provide an overview of yourself and your team's existing members, including all relevant entrepreneurial, business, and technical interest or expertise relevant to the project. (500 words)

Why are you seeking a GRInSTEM Fellowship? (500 words)

Provide a viable schedule of activities for your intended outcomes/deliverables for the duration of the program. Include high-level project objectives, business and technical milestones, and required resources. (500 words)

How do you intend to spend the GRInSTEM funding? Please take your business/technical milestones into account when outlining your expected budget. (500 words)

Do you have a long-term growth plan or exit strategy for your technology startup? If yes, please describe. (500 words)

What are the most significant business and technical challenges to establishing your technology product and startup? How do you plan to mitigate these challenges? (500 words)

Are there any factors (personal or professional) that might prevent your success as an entrepreneur? (500 words)

Benefits/Impact

Does your technology have any potential environmental benefits for Canada (e.g., reducing greenhouse gases or air quality issues, optimized water and land management, climate change adaptation)? Use quantitative and qualitative examples that can be supported through facts and reasonable calculations. (500 words)

Describe and quantify the economic benefits expected from the project and the future deployment of the proposed technology here in Calgary (e.g., prototypes developed, clean technology patents filed, technologies/products tested/demonstrated, company revenue generated, export growth, sustainable jobs created). (500 words)

Describe and quantify societal benefits expected to result from the project and future deployment of the proposed technology in Canada (e.g., networks, partnerships and collaborations developed, raised awareness of climate change and emissions reduction). (500 words)

Partners

Based on your target market analysis, outline your strategy to cultivate relationships or partnerships that will support the development of your startup/technology product. Where do you fit in the supply chain, and how will you secure this position? Be as specific as possible. (500 words)

Provide any relevant information on past or current collaborations or relationships with industry partners, investors, innovation agencies (e.g., Alberta Innovates, etc.), or academic subject matter experts or researchers. Have you validated the technology concept with target partners or customers? If yes, please describe. (500 words)

Additional Information

How can Innovate Calgary help you succeed? (500 words)

Is there anything else you would like to tell us? (500 words)