Super sanitize: Cleaning sensitive equipment and workspaces

Updated Information
Changes to the following headings:

- **Indirect Costs:** 15%
- **New Internal Deadline:** June 12
- **New Internal Contact:** Angela Vuk (avuk@uoguelph.ca [1])
- **How to Apply:** Applications must be submitted through Canada Post's eConnect system which is a 2-stage process with DND and can require several days. Researchers are encouraged to complete **the registration process as early as possible** to ensure your application can be submitted by the internal deadline. Please contact the Office of Research if you require assistance with this process.

Sponsor

Defence Research and Development Canada (DRDC)

Program

COVID-19 Challenges (Phase 1)

For More Information

Visit the Covid-19 Challenges website [2].

Description

Defence Research and Development Canada (DRDC) in collaboration with Canada’s defence, security and public safety communities are looking for viable and effective processes and methods for safely and rapidly decontaminating enclosed work environments (e.g., buildings and modes of transportation) containing sensitive equipment.

Background and Context

Properly and rapidly sanitizing and disinfecting of spaces, surfaces and equipment that are likely to harbour pathogens within different work environments and locations (e.g., hospital rooms, patient triage areas, operation centres, Navy vessels etc.), different modes of transportation (e.g., rail, land, air and sea transport), and especially those involved in transporting patients with highly infectious diseases (e.g., land, fixed-wing and rotary wing aircraft ambulance vehicles) is

critical for ensuring the health and safety of workers, patients and the public.

Presently, all surfaces must be cleaned of visible debris, medical waste, soiling, contaminants, dirt, and dust before being manually decontaminated with chemical sanitizers, which very often, also require several minutes of wet contact time to decrease antimicrobial elements on surfaces (e.g., kill bacteria, fungi and deactivate viruses). This is very labour intensive and often requires a lot of time that results in unnecessary delays in access to that work environment or vehicle. In the case of an ambulance, time spent cleaning removes a front line responder from their ability to prepare for the next medical/trauma response call, which has direct impact on the provision of care.

This challenge does not necessarily seek to eliminate the need for manual cleaning, but rather to elicit effective solutions including potentially automated approaches that will (a) meet Health Canada assurance standards; and (b) help to significantly reduce the time that is needed for cleaning, sanitizing and disinfecting and associated idling of that capability. The work environments are diverse - ranging from enclosed spaces in operational centres and Navy vessels with integrated air ducts and circulation systems to ambulances and airplanes. In addition the work environment surfaces and materials are varied—everything from square, flat, solid surfaces, to soft, porous surfaces and materials. For example, certain environments (e.g., air and vehicle transport ambulances) will also contain sensitive medical equipment and supplies, and in the case of a transportation vehicles (e.g. cockpits, Navigation decks) sensitive electronic and specialized equipment. Thus, it is expected that proposed solutions will need to account for the range of surfaces and materials that exist.

Eligibility

This CFP is open to **individuals, academia, not-for-profit organizations, for-profit organizations, and provincial/territorial/municipal governments**.

Applicants with joint ventures may also apply. See section 1.6 of the IDEaS Program Applicant Guide [3] for more information.

Funding Availability

Phase 1 – award up to $200,000

Maximum Project Value

See 'Funding Availability'.

Indirect Costs

15%

Project Duration

Phase 1 is up to 6 months in duration

Special Notes

Please refer to the Office of Research COVID 19 web-page [4] for directives related to research activities at the University of Guelph.

Deadlines

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

Type	Date	Notes
Internal Deadline	Friday, June 12, 2020 - 4:30pm	Please submit your proposal, along with an OR-5 Form to research.services@uoguelph.ca [5].
External Deadline	Tuesday, June 23, 2020 - 2:00pm	

How to Apply

Applications must be submitted through Canada Post's eConnect system which is a 2-stage process with DND and can require several days. Researchers are encouraged to complete **the registration process as early as possible** to ensure your application can be submitted by the internal deadline. Please contact the Office of Research if you require assistance with this process.

Stage 1: Proposal Submission

The Applicant is to complete the following:

- Read the Applicant Guide and determine eligibility.
- Review the S&T Challenges and determine if they can address any of them with an innovation. [6]
- Complete the Proposal Form [7] and submit on or before the closing date for the CFP.

For Questions, please contact

Send any questions to the IDEaS Program mailbox (DND.IDEaS-IDEeS.MDN@forces.gc.ca [8]). We try to turn around any responses within 48 hours. Please note that questions received less than five (5) calendar days before the application deadline may not be answered.

Register to the information session on June 11, 2020 [9] to answer questions about the application process, as well as any technical questions.

Office of Research

Angela Vuk, Senior Grants and Contracts Specialist
Research Services Office
519-824-4120 x55026
avuk@uoguelph.ca [1]
Alert Classifications**Category:**
Funding Opportunities and Sponsor News

Disciplines:
Health and Life Sciences
Physical Sciences and Engineering

Source URL:https://www.uoguelph.ca/research/alerts/content/super-sanitize-cleaning-sensitive-equipment-and-workspaces

Links
[1] mailto:avuk@uoguelph.ca
[2] https://www.canada.ca/en/department-national-defence/programs/defence-ideas/understanding-ideas/sandbox/covid19-challenges.html
[3] https://www.canada.ca/en/department-national-defence/programs/defence-ideas/understanding-ideas/sandbox/covid19-challenges/applicant-guide.html#one-six
[4] https://www.uoguelph.ca/research/article/2019-novel-coronavirus-information
[5] mailto:research.services@uoguelph.ca
[6] https://www.canada.ca/en/department-national-defence/programs/defence-ideas/understanding-ideas/sandbox/covid19-challenges.html#sec-1
[7] https://www.canada.ca/content/dam/dnd-mdn/documents/ideas/covid-19/cfp_en.pdf
[8] mailto:DND.IDEaS-IDEeS.MDN@forces.gc.ca
[9] http://www.ideasreg.com/