

RAPID RESPONSE

Queen's SARS CoV-2/COVID-19 Research Opportunity

Application Form

Important Dates

Competition 1:

- **April 17, 2020** - Full applications due
- **April 27, 2020** - Decisions released
- **October 31, 2020** - Project spending deadline

Competition 2:

- **May 20, 2020** - Full applications due
- **June 5, 2020** - Decisions released
- **December 31, 2020** - Project spending deadline

*Please review the Terms of Reference before completing the application form. The Principal Investigator must be Queen's tenured, tenure-track, or clinical faculty with protected research time. Co-investigators must hold a faculty appointment at Queen's. Other team members may be Queen's tenured, tenure-track, or clinical faculty with protected research time, adjuncts, research associates, students, post-doctoral fellows, etc.

Principal Investigator	
Name and email address:	
Appointment (tenured, tenure-track, or clinical faculty with protected research time):	
Discipline and Department or Faculty/School for non-Departmentalized Faculties:	
Project title:	

Co-investigator #1 (if applicable)	
Name and email address:	
Appointment (must hold a faculty appointment at Queen's):	
Discipline and Department or	

Faculty/School for non-Departmentalized Faculties:	
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Co-investigator #2 (if applicable)	
Name and email address:	
Appointment (must hold a faculty appointment at Queen's):	
Discipline and Department or Faculty/School for non-Departmentalized Faculties:	

Team member(s) (if applicable)	
Name and Department or Faculty/School for non-Departmentalized Faculties (indicate if: tenured, tenure-track, clinical faculty with protected research time, adjunct, research associate, student, post-doctoral fellow, etc.):	

Amount requested (\$10,000-\$50,000)	
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Lay summary of the proposed research, including potential impact of the project (maximum 1/2 page)

Check the box(es) to indicate which countermeasure(s) you are addressing:

Medical countermeasures:

pathogenicity, zoonotic sources, and reservoirs of SARS CoV-2, a One Health approach is encouraged;

epidemiological studies, including those examining incubation period, differential susceptibility among populations especially related to age and sex, environmental factors, and/or using mathematical modelling;

development and evaluation of diagnostics tools for early case detection and surveillance, including approaches based on serology, high throughput and artificial intelligence (AI), and/or supporting the development of rapid point of care tests;

development and evaluation of candidate vaccines, including development of animal models, identification of correlates of protection, and understanding issues around examination of the antibody-dependent enhancement of infection;

development and evaluation of candidate therapeutics, including studies on new and re-purposed anti-viral agents, antibody treatments, and combination therapies;

evaluation and optimization of infection prevention control measures, including improving protection of health care workers and community and optimizing personal protection equipment;

clinical characterization and management of disease, including identification of biomarkers for clinical outcomes, optimization of treatment, understanding the full spectrum of disease and the role of comorbidities, and identifying and evaluation of best adjunctive and supportive therapies; or

clinical trials design and ethical considerations, including approaches capitalizing on and coordinating with existing clinical trial networks, developing master protocols that will improve collaboration and

comparison across different studies internationally, and optimize development of new drugs, vaccine and diagnostics.

technology innovation specific to SARS CoV-2 mitigation strategies

Social/Policy countermeasures:

cultural dimensions of the epidemic, such as examining how individuals and communities understand and react to the disease and how the public health response can be tailored to the unique circumstances of different populations, including vulnerable populations;

the public health response, including the feasibility and effectiveness of social policies aiming to prevent and contain COVID-19 and to mitigate its secondary impacts (e.g., supply shortages, school closures, travel restrictions, quarantines, racism);

identification of approaches for supporting the psychosocial needs of those who are caring for people with COVID-19;

development of strategies to combat misinformation, stigma, and fear, to address their underlying drivers, and to improve public awareness, knowledge, and trust during the outbreak response;

the logistics of the response (e.g., infrastructure, transport, evaluation) and opportunities for their immediate improvement;

methods for involving local perspectives, citizens, and communities in the outbreak response effort;

international relations, global coordination, response systems, and crisis management in order to identify which international coordination mechanisms can optimize the global response to the COVID-19 outbreak and best complement national and sub-national responses; or

understanding of the social dynamics of transmission and vulnerability and how to best communicate related risks, uncertainties, and implications.

psychological, social, political and/or cultural factors in the emergence, spread and treatment of COVID-19 and the legal, moral, economic and ethical implications

development of strategies to mitigate negative impact of COVID-19 on global, national, and regional economic development, value creation chains, and businesses

study of the development of measures to ensure that COVID-19 responses serve the values of equity and justice

development of public policy strategies to mitigate the impact of COVID-19 on vulnerable populations, including social welfare provisions

Will the proposed research, if successful, help mitigate the rapid spread of the SARS CoV-2 virus

If yes, indicate:

inside Canada

outside Canada

Will the proposed research, if successful, help mitigate the negative consequences of the rapid spread of the SARS CoV-2 virus on people or communities?

If yes, indicate:

inside Canada

outside Canada

Sex, Gender, and Other Identity Factors

Is sex as a biological variable taken into account in the research design, methods, analysis and interpretation, and/or dissemination of findings?

Is gender as a socio-cultural factor taken into account in the research design, methods, analysis and interpretation, and/or dissemination of findings?

Are other identify factors (e.g., race, socioeconomic, age, other) taken into account in the research design, methods, analysis and interpretation, and/or dissemination of findings?

Describe how sex and/or gender considerations and/or other identity factors will be integrated into your research proposal (maximum 1/2 page).

OR

Explain why sex and/or gender and/or other identity factors are not applicable to your research proposal. (maximum 1/2 page)

Indigenous Populations (maximum half page)

For applications relevant to Indigenous populations, describe how Indigenous peoples will be meaningfully included in the proposed research.

*Please append the Proposal, Budget and CV(s) to the application form

Proposal (maximum 3 pages, 12 point Times New Roman font, single spaced, and 1 inch margins minimum on all sides).

Applicants are encouraged to be mindful of equity, diversity and inclusion principles when completing the proposal.

Please use the headings.

Acceleration of countermeasure

Describe how and the extent to which the proposed research will accelerate the development, testing and implementation of the selected countermeasure(s), in Canada and/or internationally (as relevant).

Objectives

Outline the objectives of the proposed research.

Research

Brief description of the research, including:

- overview of the proposed approach/methodology
- expertise needed to conduct each component of the research and the team member(s) who has that expertise.
- timeline for each component of the research (research is to be concluded by October 31, 2020, for competition 1 and by December 31, 2020, for competition 2).

Impact

Describe the potential impact of the proposed research

- Include how and when the results will be shared with the appropriate research and/or receptor community

Budget (maximum one page, 12 point Times New Roman font, single spaced, and 1 inch margins minimum on all sides)

Describe and justify the resources, including infrastructure, that are required for the research:

- Indicate which resources are currently available
- Indicate how the requested funding will be used

Abbreviated Curriculum Vitae (maximum two pages, 12 point Times New Roman font, single spaced, and 1 inch margins minimum on all sides)

Provide an abbreviated CV for the Principal Investigator and for any Co-investigator.

- Name/email/Department
- Current appointment at Queen's University
- Confirm if an Early Career Researcher (first academic appointment within last 10 years)
- Year highest degree completed
- Publications (list top-three publications)
- Funding (list five most significant grants/contracts in the last five years)
- Recent academic service (conference organization, journal editor, committee service, etc.)
- Awards and honours (list top-three)

Submission Instructions

Submit to: research@queensu.ca

By April 17, 2020 for Competition 1

By May 20, 2020 for Competition 2

TRAQ DSS:

To expedite the process, a TRAQ DSS will only be required for successful applications.

Release of funds will be subject to all usual certifications and approvals, including from all applicable hospitals.

An expedited Ethics Clearance process will be available, where applicable.

Questions:

Please send all questions to research@queensu.ca