National Research Council (NRC) Call for quantum sensing prototypes

Sponsor

National Research Council (NRC)

Program

Call for Quantum Sensing Prototypes

For More Information

Call for Quantum Sensing: Quantum level Biophoton Optical Imager [1]

Call for Quantum Device Refrigeration: Scaled Down Dilution Refrigerator [2]
Call for Quantum Sensing: Ultrasensitive spectroscopy system for quantum photonics [3]

Description

Public Works and Government Services Canada (PWGSC) is publishing this Demand Call for Proposals (CFP) on behalf of Innovation, Science and Economic Development Canada (ISED) in support of the National Research Council (NRC), seeking innovative, pre-commercial solutions to leverage Quantum Technology to address operational requirements. The Testing Stream aims to procure, test and evaluate innovative late stage pre-commercial prototypes. Eligible applicants can receive up to $550,000 to test their prototypes in real life settings.

More specifically, NRC is seeking solutions in the Quantum Technology field to address the following Problem Statements:

- Quantum level Biophoton Optical Imager (Quantum Sensing);
- Scaled Down Dilution Refrigerator (Quantum Device Refrigeration); and
- Ultrasensitive spectroscopy system for quantum photonics (Quantum Sensing)

Details related to each Departmental Demand are attached in Solicitation Document, Appendix 5 in the Attachments section below and listed in the published Demand CFP Notice of Proposed Procurement [4].

Eligibility

Canadian content: 80% of the financial proposal costs, must be Canadian goods or Canadian services, as defined in the Canadian Content certification (see Solicitation Document).

Ownership: The Bidder must be the owner of the Intellectual Property (IP) for the proposed innovation, or have a licence to the IP rights from a Canadian licensor for the proposed innovation and not be infringing on any IP rights.

Pre-commercial status: The proposed innovation must not be openly available in the marketplace, and must not have been previously sold on a commercial basis as of the date of this bid submission. (Please note: Once your company submits a proposal for an innovation to the program, the innovation is able to be sold commercially)

Previously pre-qualified innovation: The proposed innovation or any other versions of the proposed innovation must not have been previously awarded a contract in any of the Innovative Solutions Canada Streams, the Build in Canada Innovation Program (BCIP) or its predecessor, the Canadian Innovation Commercialization Program (CICP), and it is not currently active in a pool of pre-qualified Innovations.

Active pool: A proposed innovation that is currently active in a pool will be accepted only once the bid validity period for that proposal has expired or the Bidder has withdrawn their innovation from the relevant pool in collaboration with the Contracting Authority. The Bidder agrees that having pre-qualified into a pool does not guarantee pre-qualifying under the current solicitation.

Maximum Project Value

The Bidder's financial proposal must not exceed the relevant component's maximum funding amounts which are $550,000.00 CAD for the standard component (applicable taxes, shipping, and travel and living expenses are extra, as applicable).

Deadlines

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

Type	Date	Notes
External Deadline	Thursday, February 24, 2022 - 4:30pm	Applicants must follow the detailed proposal submission instructions in the Solicitation Document in the Attachments section.

How to Apply

Bidders must submit their proposal using the Testing Stream Electronic Proposal Submission Form. The form can be found by clicking the “Submit your Proposal” button on the ISC website. Proposals that are submitted in an alternate format will not be accepted unless prior approval has been obtained from the Contracting Authority at: TPSGC.PASICVoletessaiAPISCTestingStream.PWGSC@tpsgc-pwgsc.gc.ca [5] This includes the submission of proposals with a security level exceeding Protected B. 3.1.6

The Bidder’s responses to the criteria presented in the electronic Proposal Submission Form will form the Bidder's Technical Proposal. Bidders should respond to each criterion in a thorough, concise and clear manner within the allotted character count for each criterion. Bidders should explicitly demonstrate, in sufficient detail, how all criteria are met. In addition to the Technical Proposal, Bidders must complete the Financial Proposal set out in the Electronic Proposal Submission Form. The maximum funding level for the Standard Component is $550,000 CAD (applicable taxes, shipping, and travel and living expenses are extra, as applicable). Any dollar value exceeding the maximum contract funding amounts will be the Bidder’s commitment of co-investment funding to any resulting contract. The Financial Proposal must not include costs for commercial development activities such as quantity production, supply to establish commercial viability, integration, customization, incremental adaptations and improvements to existing products or processes that have been previously commercialized, third party tested or for the cost of obtaining health and safety / regulatory certifications. This procurement does not offer exchange rate fluctuation risk mitigation.

All instructions, clauses and conditions identified in the proposal solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual [6] issued by Public Works and Government Services Canada. Bidders who submit a proposal agree to be bound by the instructions, clauses and conditions of this Call for Proposals solicitation and accept the clauses and conditions of the resulting contract at Appendix 3 of the Solicitation Document.

Attachment(s)

Attachment	Size
Solicitation Document with appendices [7]	1004.18 KB

For Questions, please contactAll enquiries must be submitted in writing to: TPSGC.PASICVoletessai-APISCTestingStream.PWGSC@tpsgc-pwgsc.gc.ca [8] no later than five calendar days before the Notice closing date. Enquiries received after that time may not be answered. Alternate Contact: Ingrid Harrington: Ingrid.harrington@tpsgc-pwgsc.gc.ca [9]; 613-859-0469

Office of Research

Devon Staaf, Senior Grants and Contracts Specialist
Research Services Office
dstaaf@uoguelph.ca [10]
Alert Classifications**Category:**
Funding Opportunities and Sponsor News

Disciplines:
Physical Sciences and Engineering

Source URL:https://www-research.uoguelph.ca/research/alerts/content/national-research-council-nrc-call-quantum-sensing-prototypes

Links
[1] https://app.cyberimpact.com/click-tracking?ct=ImvGNpihwoL5KOLQUuk8nODQmT3dBUjf0lipWl7uXQyEJw-OLCQBUFe7e-yegI4kBq7z-Q4TSY_rrTmCig-cHTmBunQ_c1z0n6BCZcLAQg4~
[2] https://app.cyberimpact.com/click-tracking?ct=4ueqqls5fS_LapBXKwOzIpVaBK0yuGW_hBe0Wu_KaAgDGNNEq5NQ2LI1Og8l5WUDxoe-NPTHzZcRHad1MXq7LKfVddeBK3zDv5U8BciW4RI~
[3] https://app.cyberimpact.com/click-tracking?ct=8Nm4IkCBA370sDJ09L8Z618XCEre-bMVlV0IgcKHiLI-9gyTvSMztNkuF_tY5Fad35em38GuMykCUDwPsE2-y05wbPz8sHLiVm8xx-ilbnM~
[4] https://buyandsell.gc.ca/procurement-data/tender-notice/PW-22-00984336
[5] mailto:TPSGC.PASICVoletessaiAPISCTestingStream.PWGSC@tpsgc-pwgsc.gc.ca
[6] https://buyandsell.gc.ca/policyand-guidelines/standard-acquisition-clauses-and-conditions-manual
[7] https://www-research.uoguelph.ca/research/alerts/sites/default/files/attachments/Solicitation%20Document.pdf
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