EU - CANADA Quantum Technologies Workshop (NSERC Supported)

Updated Information

Update about the program:

All presentations and videos from the EU-Canada Workshop (May 3rd and May 31st) are now available online.

The feedback survey is still open for few days.

Details about the program are listed below.
The call for applications is anticipated to be released at the end of May/start of June with applications due September 8, 2021. This will be a single stage submission process.   The focus of this call is on **fundamental research** and industrial partnerships are not required. Canadian researchers are not eligible to receive EU funding. As the Canadian partner, NSERC is committing $6M to the program for Canadian researchers. Projects can be up to 36 months and NSERC is expecting to fund ~ 3 projects. Additional information/updates will be released on the NSERC website as it becomes available.   The three priority areas and sub-themes are:

- Quantum Computing and Simulation
  - Co-design of hardware and software to accelerate applications.
  - Seamless interoperable software-to-hardware stack that can apply over multiple platforms
  - Theoretical and computer science foundations of quantum algorithms and architecture
- Quantum Communication
  - Privacy and security concepts, proofs and applications, including QKD (quantum key distribution and beyond)
  - Device independent protocols, quantum network/repeater protocols, including architectures and network stacks
  - Development of satellite and space-based hardware, and certification/verification of states and correlations.
- Quantum Sensing Metrology
  - Device fabrication, characterization, (e.g., for magnetometry, prospection, imaging, navigation, biomedical
  - Theoretical research optimizing simple sensors, control, as well as advanced approaches

The European Commission will be holding a networking workshop with research pitches on May 31. This networking event is designed to enable researchers to connect with EU partners and build collaborations. For more information on the networking workshop and to register please visit the Quantum Flagship website.
Researchers are encouraged to consult Quantum Flagship for information on the status of current research in quantum technologies, identify research gaps and complementary research

skills/partnerships.
Only Principal Investigators from European eligible countries to the joint call and Canada can submit a pitch.

For time constraints, only 12 pitches videos (six Europeans /six Canadians) will be broadcasted during the workshop. In the interest of fairness, we will conduct a random drawing among the eligible pitch videos. Note that all submitted pitches will be available after the workshop through the Flagship's official communication channels (qt.eu and YouTube channel) in compliance with image rights and GDPR rules authorization.

Deadlines and submission procedure (mandatory):

1. Fulfill the pitch submission form
2. May 12th, 2021
2. Either you record the video by yourself, according to the requirements or, if you need our support to record, select an appointment date using this Google Doc form.

Deadline for pitch's video submission: May 17th, 2021

Pitch requirements:

- The video must NOT exceed three minutes and must NOT be commercial
- Clear information about: topic addressed / project objectives / complementary skills needed
- The image quality of 1020p or full HD
- Good quality sound
- Landscape view

For questions please contact:

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The Office of Research Services is implementing a new research database and as such business processes may be delayed. Thank you for your patience over the coming weeks as our staff learn and adapt to the new system. COVID-19 Please note that research activities carried out in the context of COVID-19 need to adhere to the University of Guelph COVID-19 research principles, policies, guidelines and processes as they may be updated from time to time and communicated on the Office of Research web-page.

Description

On the occasion of the launch of the Horizon Europe work program, a public workshop will be dedicated to the presentation of an upcoming joint Research call Program on

Quantum Technologies between Europe and Canada, with the possibility to have dedicated networking to share experiences and form new partnerships. Funds to support Canadian researchers will be available from NSERC.

This EU-CAN workshop is scheduled in two parts:

- May 3rd 2021, 4 pm (Brussels - CEST) / 10 am (Ottawa - EDT):

Online presentation of the joint call with the European Commission and the Natural Sciences and Engineering Research Council of Canada (NSERC) and live Questions & Answers.

- May 31st 2021, 4 pm (Brussels - CEST) / 10 am (Ottawa - EDT):

Project pitches and networking session.

Participation is free but registration is mandatory. Visit the EU-Canada Workshop registration webpage to sign up to the May 3rd session. Registered participants will receive the connection link a few days before the event. Stay tuned for more information on the agendas and participants.

Questions can be directed to rp-quantum@nserc-crsng.gc.ca

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Alert Classifications**Category:**
Workshops and Events

Disciplines:
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