

QuantERA Call 2021 - Proposers Webinar

Research targeted, topics description

Serguei Fedortchenko, ANR 13.04.2021



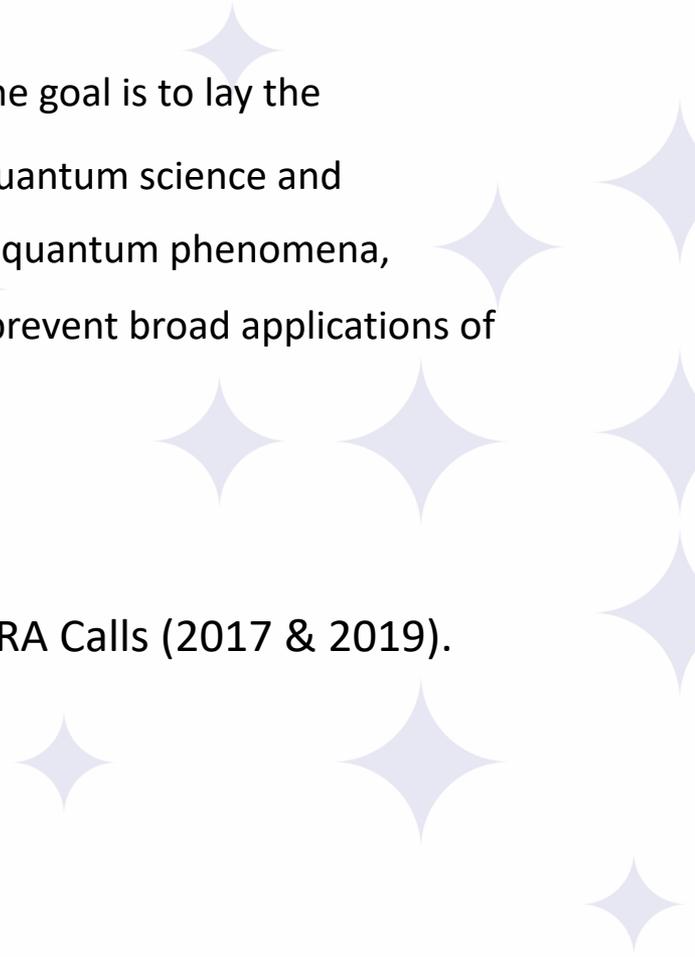


Targeted research

- Projects funded in QuantERA II should contribute to the development of the European research and innovation in QT. The transformative research funded within the QuantERA II should explore collaborative advanced interdisciplinary science and/or cutting-edge engineering with the potential to initiate or foster new lines of QT and help Europe grasp leadership early on in promising future technology areas.
- The call is divided into two topics, each having a different Evaluation Panel:
 - **Quantum Phenomena and Resources (QPR);**
 - **Applied Quantum Science (AQS).**

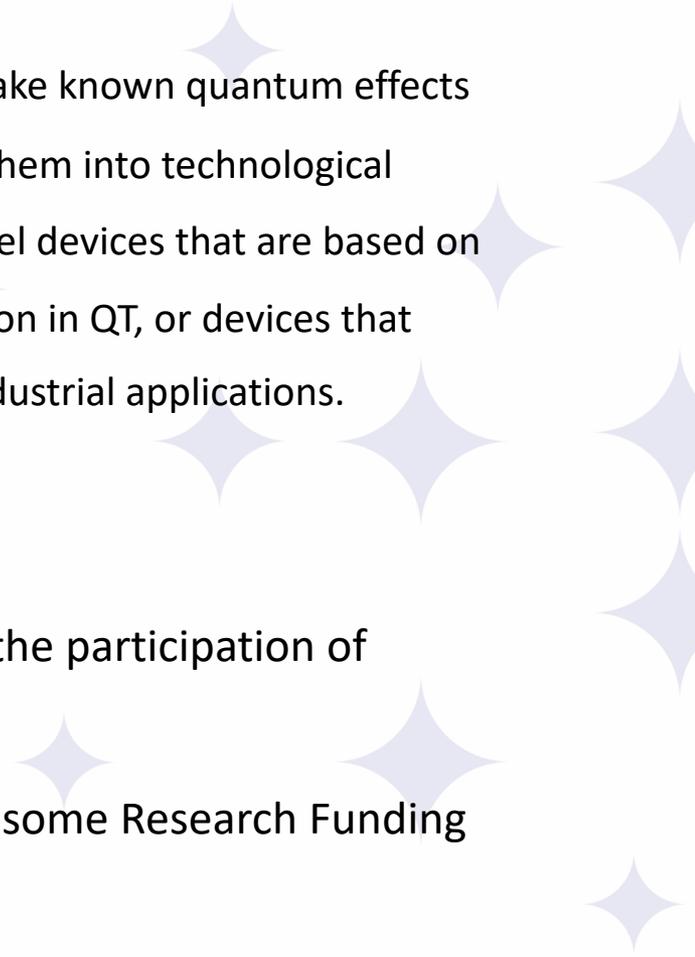


Topics description - (1/2)

- **Quantum Phenomena and Resources (QPR)**, where the goal is to lay the foundations for the QT of the future. The focus is on basic quantum science and fundamental physics, and the projects should explore novel quantum phenomena, concepts, resources, and/or address major challenges that prevent broad applications of some quantum technologies.
 - Oriented towards **basic research**.
 - In line with the research targeted in previous QuantERA Calls (2017 & 2019).
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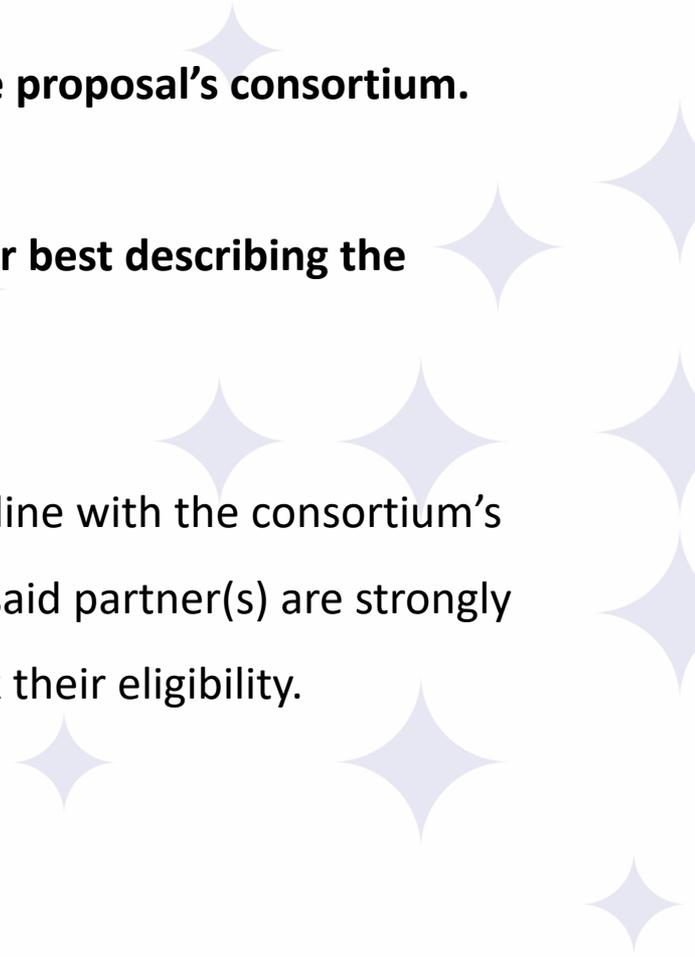


Topics description - (2/2)

- **Applied Quantum Science (AQS)**, where the goal is to take known quantum effects and established concepts from quantum science, translate them into technological applications and develop new products. These could be novel devices that are based on known quantum effects and that will serve a novel application in QT, or devices that translate known quantum applications into products and industrial applications.
 - Oriented towards **applied research**.
 - Novelty of this call, introduced to further encourage the participation of **applied research groups** and **industrial groups**.
 - No TRL expectations at the QuantERA level, however some Research Funding Organisations may have specific eligibility rules.
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Choosing a topic

- **The choice of the topic for a proposal is made by the proposal's consortium.**
 - **The topic you choose should be the one you consider best describing the direction of your research.**
 - Note that if the tasks of (a) partner(s) are not well in line with the consortium's chosen call topic (and closer to the other topic), the said partner(s) are strongly encouraged to contact their respective RFOs to check their eligibility.
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Quantum Technologies areas and expected impacts

- Once the topic is chosen, you will be asked to indicate which areas in Quantum Technologies are tackled by your proposal.

- **There are five Quantum Technologies areas:**
 - Quantum communication;
 - Quantum simulation;
 - Quantum computation;
 - Quantum information sciences;
 - Quantum metrology sensing and imaging.

- Each one of these areas, as well as the list of **expected impacts** is detailed in the Call Announcement (see <https://www.quantera.eu/>).



QuantERA Call 2021 - Proposers Webinar
Partner Search Tool and Electronic
Submission System (ESS)

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Proposal preparation recommendation

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Application requirements

➤ Formation of consortia:

- At least 3 partners from 3 countries participating in the call topic
 - Industrial partners eligible for some funders (see call text for details)
- Research should be focused on a clearly defined objectives, i.e. typically not more than 6 partners is recommended
- Consortia should be balanced:
 - Not more than 60% of the total requested funding may be requested by partners from one country

➤ Additional partners

- Research groups from countries whose funding organisations are not in the call may join a project consortium as long as they are able to secure their own funding
- These groups/institutions do not count for the 3 3 rule
- The coordinator must request funding



Application procedure

- Length of the pre-proposal: no more than 14 pages + 2 pages for references
- Each consortium specifies one coordinator
 - Single point of contact for the call secretariat
 - The coordinator must be based in a country participating in the call
- For each project partner, one PI is the point of contact at the national/regional level
- Prior to submission, each PI has to consult with her/his funding organization regarding eligibility issues:
 - Eligibility of the institution (university, academic institutions, industry,...)
 - Position of the PI (e.g. permanent staff,...)
 - Eligible costs
- Some funding organisations require additional national/regional forms

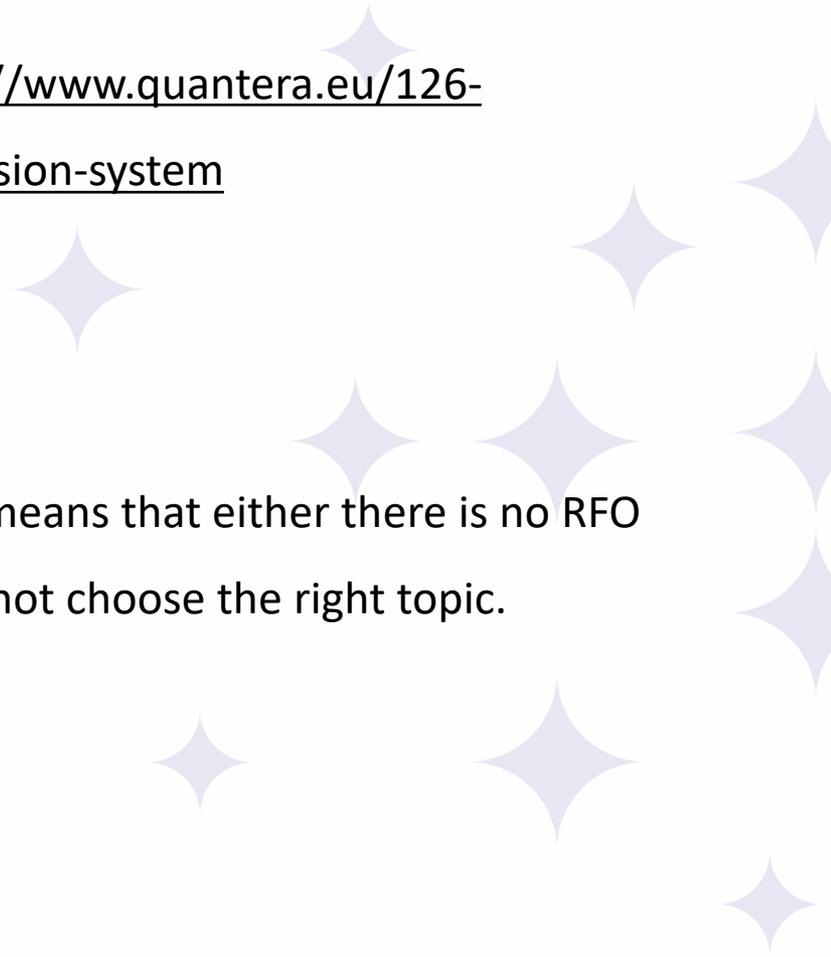


Frequently Asked Questions (FAQ)

- The FAQ contains answers to questions that have already been asked. The list of questions could be increased in the coming weeks as we receive more questions.
- Available here: <https://www.quantera.eu/calls-for-proposals/faq>
- Examples of questions:
 - Can a partner, from a country not in the call, participate in a proposal?
 - Are multiple submissions allowed, within the same topic or across topics?
- **Note:** if your question involves rules for your country specifically, please contact your Research Funding Organisation (RFO).



The Electronic Submission System (ESS) – (1/2)

- The links for the ESS are available here: <https://www.quantera.eu/126-quantera-call-2021-faq-and-electronic-submission-system>
 - Each topic, QPR and AQS, has a dedicated link.
 - On the ESS, if you can't find your funder, this means that either there is no RFO from your country in this Call, or that you did not choose the right topic.
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The Electronic Submission System (ESS) – (2/2)

- Make sure to read the ESS guidelines, that can be downloaded here in PDF format:
<https://www.quantera.eu/126-quantera-call-2021-faq-and-electronic-submission-system>
- These guidelines contain screenshots to help you throughout the creation of your proposal on the ESS.
- While the creation of the proposal will not take long, **please make sure to start preparing your proposal enough in advance on the ESS.**
- Indeed, as the coordinator, once you created the proposal, your partners need to have enough time to log in as well and check, and/or update their information.



Additional recommendations

- Make sure that your partners have checked their eligibility with the respective funding organisations.
 - Take into consideration national/regional budget constraints (see the table in the Call Announcement).
 - Do not hesitate to contact the QuantERA Call Secretariat and your national/regional contact points (their emails addresses are can be found on the call's webpage).
 - Get used to the electronic submission system sufficiently in advance to prevent any technical risk.
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