



QUANTERA

ERA-NET Cofund in Quantum Technologies

Updated version (21st January 2019)
of the
Call 2019 for Transnational Research Proposals

Supporting the topics of

Quantum Technologies

Submission deadline: 18th of February 2019, 17:00 CET

Documents and procedures: <http://www.quantera.eu>

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Maximum call budget: €20 M



*This project has received funding from the European Union's
Horizon 2020 research and innovation programme under
Grant Agreement No 731473.*

History of Changes:

1. Two new funding organisations from Italy were added:

- INFN – Istituto Nazionale di Fisica Nucleare
- INRIM – Istituto Nazionale di Ricerche Metrologiche

2. The budget of **BNSF, Bulgaria** has been updated to:

- 230,081 EUR for the entire QuantERA Call 2019 with a maximum budget of 76,694 EUR per one project.

3. The contact person for **MEYS, Czech Republic** has been updated.

Key Facts & Figures

QuantERA

QuantERA ERA-NET Cofund in Quantum Technologies is a consortium of national/regional funding organisations in Europe supporting research in Quantum Technologies. QuantERA is supported by the European Union's Future and Emerging Technologies programme (FET).

The funding organisations of QuantERA jointly support European multilateral research projects with the potential to initiate or foster new lines of quantum technologies through collaborations exploring advanced multidisciplinary science and/or cutting-edge engineering.

Call 2019

Scope: Quantum Technologies

Maximum call budget: €20 M

The project consortia must have a minimum of 3 eligible partners requesting funding in at least 3 of the following countries:

International consortium: Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Greece, Hungary, Israel, Italy, Latvia, Lithuania, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

Standard consortium size: Three to six partners

Evaluation: Short and full proposals are evaluated based on criteria of *Excellence*, *Impact*, and *Quality and efficiency of the implementation*

National/Regional eligibility Each partner must fulfil the conditions of the national/regional for funding: funding organisation, as described in the Annex (p. 14)

Tentative Timeline

18th of February 2019, 17:00 CET **Deadline for short and full proposals submission**

End of April 2019 Notification of selected short proposals

September 2019 **Notification of selected full proposals**

Fall 2019 Start of funded projects

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Research Targeted in the Call

The QuantERA consortium has created a common funding instrument to support European research projects enabling long-term research in the area of Quantum Technologies.

Through this instrument, the national/regional funding organisations of the QuantERA consortium contribute to the Quantum Flagship agenda¹. By launching joint European calls for research projects, they can support more diverse research communities, who are able to tackle the most challenging and novel research directions.

QuantERA projects should be of a FET-like nature² and contribute to the development of the European research and innovation in Quantum Technologies. The transformative research done in QuantERA should explore collaborative advanced interdisciplinary science and/or cutting-edge engineering with the potential to initiate or foster new lines of quantum technologies and help Europe grasp leadership early on in promising future technology areas.

To spread research excellence throughout Europe, QuantERA projects are encouraged to include partners from the widening countries participating in the call: Bulgaria, Croatia, Czech Republic, Hungary, Latvia, Lithuania, Poland, Portugal, Romania, Slovakia, Slovenia and Turkey.

To build leading innovation capacity across Europe and connect with industry, QuantERA projects are encouraged to involve key actors that can make a difference in the future, for example excellent young researchers, ambitious high-tech SMEs etc.

Target Outcomes

Funded projects are expected to address one or more of the following areas:

1. Quantum communication

Methods/tools/materials/strategies to deal with the issues of distance, reliability, efficiency, robustness and security in quantum communication; novel protocols for multipartite quantum communication; quantum memory and quantum repeater concepts.

Novel photonic sources for quantum information and quantum communication, coherent transduction of quantum states between different physical systems; integrated quantum photonics; quantum communication embedded in optical telecommunications systems; other communication protocols with functionality enhanced by quantum effects.

Methods for quantum communications in space, between satellites and Earth.

2. Quantum simulation

Platforms and materials for quantum simulation; development of new measurement and control techniques and of strategies for the verification of quantum simulations.

Application of quantum simulations to condensed matter, chemistry, thermodynamics, biology, high-energy physics, quantum field theories, quantum gravity, cosmology and other fields.

¹ See Strategic Research Agenda of the European Quantum Technology community at www.qt.eu

² See 'FET Gatekeepers' p. 7 at

https://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-fet_en.pdf

3. Quantum computation

Development of devices to realise multiqubit algorithms; demonstration and optimisation of error correction codes; interfaces between quantum computers and communication systems.

Development of novel quantum algorithms; demonstration of quantum speed-up; new architectures for quantum computation.

4. Quantum information sciences

Novel sources of non-classical states and methods to engineer such states. Development of device-independent quantum information processing. Methods for the reconstruction and estimation of complex quantum states or channels and certification of their properties. Development of resource theory for quantum information. Study of topological systems for quantum information purposes. Understanding and control of open quantum systems; development of methods to confine dynamics in controllable decoherence-free subspaces. Study of thermodynamics processes at the quantum scale.

Novel ideas and applications in quantum science and technologies, based on e.g. superposition and entanglement, as means to achieve new or radically enhanced functionalities.

5. Quantum metrology sensing and imaging

Use of quantum properties for time and frequency standards, light-based calibration and measurement, gravimetry, magnetometry, accelerometry, and other applications. Development of detection schemes that are optimised with respect to extracting relevant information from physical systems; novel solutions for quantum imaging and ranging. Implementation of micro- and nano-quantum sensors, for instance for quantum limited sensitivity in the measurement of magnetic fields at the nanoscale. Extension of the reach of quantum sensing and metrology to other fields of science including e.g. the prospects of offering new medical diagnostic tools.

Expected Impacts

Funded projects are expected to significantly advance the state-of-the-art of quantum sciences and technologies³ by achieving one or more of the following targets:

- Develop a deeper fundamental and practical understanding of systems and protocols for manipulating and exploiting quantum information;
- Enhance the robustness and scalability of quantum information technologies in the presence of environmental decoherence, hence facilitating their real-world deployment;
- Develop reliable technologies for the different components of quantum architectures;
- Identify new opportunities and applications fostered through quantum technologies, and the possible ways to transfer these technologies from laboratories to industries;
- Enhance interdisciplinarity in crossing traditional boundaries between disciplines in order to enlarge the community involved in tackling these new challenges;
- Spread excellence throughout Europe by involving partners from the widening countries
- Build leading innovation capacity across Europe by involvement of key actors that can make a difference in the future, for example excellent young researchers, ambitious high-tech SMEs or first-time participants.

³ QuantERA projects shall not duplicate research funded as part of the projects of the Call 2017 of QuantERA and the projects of the EC Quantum Flagship call (see list of projects [HERE](#) and [HERE](#))

Management of the Call

The Call Secretariat is jointly set up at ANR (France), AEI (Spain) and CNR (Italy) and will assist the Call Steering Committee and the Evaluation Panel.

Call Steering Committee

The Call Steering Committee (CSC) is the highest decision-making body of the QuantERA call, being composed of representatives of all QuantERA national/regional funding organisations participating in the call.

The CSC steers all activities of the call. In particular, the CSC nominates the members of the Evaluation Panel, selects the short proposals to be evaluated at the second stage, and establishes the final list of projects recommended for funding to the funding organisations based on the ranking list provided by the Evaluation Panel. All decisions concerning the call implementation are taken by the CSC (e.g. management of confidentiality and conflicts of interest).

Evaluation Panel

The Evaluation Panel is the evaluation body of the QuantERA call, being composed of experts in Quantum Technologies.

The Evaluation Panel evaluates the short and full proposals. In particular, it establishes a ranking list of projects which serves as a basis for the CSC funding recommendation.

Tentative Timeline

18th of February 2019, 17:00 CET	Deadline for short and full proposals submission
End of April 2019	Notification of selected short proposals
September 2019	Notification of selected full proposals
Fall 2019	Start of funded projects

Eligibility

Proposals are submitted by consortia with partners (research groups) from multiple countries. The call, the proposal evaluation and selection are transnational as well. Funding is provided directly to the selected individual consortium partners by the respective national/regional funding organisations.

Each partner is directed by a Principal Investigator (PI), who interacts with the funding organisation. One partner acts as the Coordinator for the consortium and is the single point of contact with QuantERA.

It is necessary that both the consortium is eligible for QuantERA and all partners requesting funding are eligible to be funded (see Annex p. 14). If a partner requesting funding is eligible to receive funding from multiple funding organisations, it must choose one of them.

A PI may not coordinate more than one proposal.

In general QuantERA projects have a duration of 36 months. Consortia may also propose 24 months. QuantERA projects are expected to start in the end of 2019.

Eligibility of the Consortium

1. The consortium must be international:
 - It must have a minimum of 3 partners requesting funding to organisations in the call from 3 distinct countries.
2. The consortium must be balanced:
 - At most 60% of the total requested funding may be requested by partners from one country;
 - At most 40% of the total requested funding may be requested by a single partner.

The consortium needs to be focused, that is, the proposed research must have a clearly defined goal. Consortia should therefore normally contain between three and six partners. Consortia may also comprise more than six partners.

Partners who are not requesting funding may be part of a consortium if they are able to financially secure their participation. The Coordinator must request funding.

Eligibility of Partners

The eligibility rules for partners are specific to the chosen funding organisation. For each funding organisation, the table on the next page provides an overview, including contact point(s). The full list of eligibility rules can be found in the corresponding national/regional annex (p. 14 and following).

In particular be aware that some funding organisations require that:

- Eligibility of partners is checked with them prior to applying;
- Additional documents are submitted to them.

In order not to jeopardise the whole consortium, partners should ensure that no doubts exist about the eligibility of their institution (university, academic institution, industry, end user, standard organisation...), the eligibility of their Principal Investigator (permanent staff, position secured for the duration of the project, etc.), and their eligible costs.

National/Regional Research Funding Organisations: Overview Table (see annex for further information)

* The budget is indicative and represents the committed funding available for all projects the organisation supports in this call. Together with the budget, the maximum number of projects gives an indication of the financial constraints that should be expected by partners applying to be funded by this organisation. **Partners are strongly discouraged from requesting greater budgets than are necessary for the activities being proposed.** Many proposals will request less than the upper limits (if any) indicated in the table.

Note: If the currency used in the country of the funding organisation is not the euro, the figure in the table is based on the exchange rate of November 2018.

** Some funding organisations require that partners contact them **prior to submission** or send specific documents. Some allow funding for industrial partners but additional conditions may apply. Applicants are strongly recommended to contact their contact point prior to submission in order to verify their eligibility.

Country	Funding organisation	Budget (M€)*	Expected number of projects*	Limits on amount which may be requested*	Contact prior to submission **	Additional forms **	Industrial partner eligible for funding**	Contact(s)
Austria	FFG	1.00	1-3	-	Recommended	Yes	Yes, an Austrian industrial partner is mandatory	fabienne.eder@ffg.at
Austria	FWF	1.50	-	-	Recommended	Yes	Yes, but only basic research, not aiming at direct commercial application	stefan.uttenthaler@fwf.ac.at
Belgium	FNRS	0.20	1	Up to 200 k€ per project	Recommended	Yes	No	florence.quist@frs-fnrs.be joel.groeneveld@frs-fnrs.be
Bulgaria	BNSF	0.23	2-3	Up to 76k€ per project	Yes	Yes	No	aleksandrova@mon.bg
Croatia	HRZZ	0.20	1-2	Up to 200k€ per project	Yes	Yes	No	kristinak@hrzz.hr
Czech Republic	MEYS	0.50	3-4	-	Yes	Yes	No	michal.vavra@msmt.cz
Denmark	IFD	0.50	2-3	For basic research projects aiming at later stage applied research applications: Up to 50k€ per project (1-2 projects) For applied research projects with industrial partners incl.: Up to 200k€ (2-3 projects)	Recommended	Yes	Yes	michael.hansen@innofond.dk
France	ANR	2.50	-	Up to 450 k€ per project and up to 300 k€ per partner	Recommended	No	Yes if considered a research organization	jerome.lasne@anr.fr
Germany	BMBF, VDI/TZ	2.00	5-10	Minimum 100 k€ per German partner in a project	Strongly recommended	No	Yes	krug@vdi.de
Greece	GSRT	1.00	4-5	Up to 200 k€ per project (up to 250 k€ if the coordinating partner is in Greece)	Recommended	No	Yes	mgkizeli@gsrt.gr
Hungary	NKFIH	0.30	1-3	Up to 150 k€ per partner	Recommended	No	Yes	edina.nemeth@nkfi.gov.hu
Israel	Innovation Auth	0.50	-	Up to 200 k€ per partner	Yes	Yes	Yes	dan@iserd.org.il

Italy	CNR	0.40	-	Up to 200k€ per project	Recommended	Yes	No	info.quantera@cnr.it
Italy	INFN	0.40	-	Up to 200k€ per project	Recommended	Yes	No	alessia.dorazio@bo.infn.it
Italy	INRIM	0.20	-	Up to 100k€ per project	Recommended	Yes	No	i.balbo@inrim.it
Latvia	VIAA	0.42	1-2	Up to 70 k€ per year per partner	Recommended	No	Yes	juris.balodis@viaa.gov.lv
Lithuania	RCL	0.10	1	Up to 100 k€ per project	Recommended	No	Yes, if sub-contracted by academic/research partner	saulius.marcinkonis@lmt.lt
Norway	RCN	0.50	1-3	Up to 250 k€ per partner	Recommended	No	Yes	psma@rcn.no
Poland	NCBR	0.60	-	-	Recommended	No	Yes	krystyna.maciejko@ncbr.gov.pl
Poland	NCN	1.00	-	-	Strongly Recommended	Yes	Yes	marlena.wosiak@ncn.gov.pl
Portugal	FCT	0.25	1-2	Up to 150 k€ per project (up to 250 k€ if project led by Portugal)	Recommended	Yes	Yes	ruı.durao@fct.pt
Romania	UEFISCDI	0.60	-	Up to 200 k€ per project (250 k€ if the coordinator is from Romania)	Recommended	No	Yes, with R & D activity and according to state aid scheme	nicoleta.dumitrache@uefiscdi.ro
Slovakia	SAS	0.24	1.2	Up to 120k€ per project	Recommended	Yes	No	barancik@up.upsav.sk
Slovenia	MIZS	0.30	1-2	Up to 300 k€ per project	Recommended	Yes	No	andrej.ograjensek@gov.si
Spain	AEI	0.50	3-4	For simulation and theory groups: Up to 40 k€ per year per partner. Up to 50 k€ per year per project. For experimental groups: Up to 50 k€ per year per partner. Up to 65 k€ per year per project. If project led by Spain: Up to 6 k€ per year in addition.	Not needed	No	No	era-ict@aei.gob.es
Sweden	VR	0.63	2-4	Expected to be in the range from 0.8 to 1.5 MSEK (approx. 80 to 150 k€) per project per year	No	No	No	tomas.andersson@vr.se
Switzerland	SNSF	1.00	3-5	-	Recommended	Yes	Yes, but only basic research, not pursuing direct commercial goals	quantera@snf.ch
Turkey	TUBITAK	1.50	8-10	See national annex.	Yes	Yes	Yes	ncpfet@tubitak.gov.tr
United Kingdom	UKRI	1.12	4	We are funding up to 1.12 million € at 280,000 € per project consortia	Yes	No	No	wendy.carr@epsrc.ukri.org Hunt@epsrc.ukri.org

Application Procedure

1. Ensuring the Proposal is Valid

- The research is in line with the scope of the call;
- The consortium meets the eligibility criteria;
- Each partner meets the eligibility criteria;

It is the responsibility of the partners to ensure their eligibility. Refer to the overview table on the previous page and the detailed regulations of each organisation in the annex for partner-specific conditions.

Please make sure that all partners who must contact their national/regional research funding organisations prior to the submission of their proposal have done so.

2. Submitting the Proposal

The call follows a **one-stage submission and two-stage evaluation procedure**. The short proposal (max. 12 pages), and the full proposal (typically 25 to 35 pages) are submitted together. The short proposal is evaluated at the first stage of the evaluation, and the full proposal at the second stage.

The projects presented in the full proposal and in the short proposal **must be consistent**.

The coordinator prepares a joint proposal (short proposal and full proposal) for the whole consortium, using the templates available on the QuantERA website (<http://www.quantera.eu/>). The forms are submitted via the electronic submission system on the website.

We recommend that a preliminary proposal be submitted several days before the deadline to guarantee against unforeseen issues. Proposals that have already been submitted can be modified until the deadline.

Partners whose funding organisation requires submitting forms alongside the joint proposal submission must do so at this point (see annex).

The coordinator and all partners must be in a position to diligently answer email queries after the submission. If a partner's PI is not available, the PI must be represented by a collaborator from the same organisation.

Evaluation and Selection Procedure

Evaluation

The evaluation relies on an international Evaluation Panel of experts, assisted by external experts.

The Call Secretariat and the national/regional funding organisations will check the proposals against the general as well as the national/regional eligibility criteria (see Annex).

At both stage of the evaluation, the eligible proposals are evaluated according to the following criteria:

Excellence (threshold: 4/5, weight: 60%)

Compliance with 'FET Gatekeepers'⁴

- i. Clarity and novelty of long-term vision, and ambition and concreteness of the targeted breakthroughs towards that vision*
- ii. Novelty, non-incrementality and plausibility of the proposed research for achieving the targeted breakthrough and its foundational character*
- iii. Appropriateness of the research methodology and its suitability to address high scientific and technological risks*
- iv. Range and added value from interdisciplinarity, including measures for exchange, cross-fertilisation and synergy*

Impact (threshold: 3.5/5, weight: 20%)

Extent to which the outputs of the project contribute at the European or international level to:

- i. The expected impacts (see 'Research Targeted in the Call' page 4)*
- ii. The transformation of technology and/or society*

Quality of the proposed measures to:

- iii. Exploit and disseminate the project results (incl. management of intellectual property rights), and to manage research data where relevant*
- iv. Communicate the project activities to different target audiences*

Quality and efficiency of the implementation (threshold: 3/5, weight: 20%)

- i. Quality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables*
- ii. Appropriateness of the management structures and procedures, including risk and innovation management*
- iii. Complementarity of the participants and extent to which the consortium as a whole brings together the necessary expertise*
- iv. Appropriateness of the allocation of tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfil that role*

At both stages of the evaluation, the Evaluation Panel meets to discuss the proposals and establishes a ranking list of the proposals. The evaluation of each proposal is summarised in a consensus report, which is made available to the applicants together with the individual evaluation reports.

⁴ See 'FET Gatekeepers' p. 7 at

https://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-fet_en.pdf

Selection

The selection decision of the projects to be recommended for funding to the national/regional research funding organisations is based on the ranking list. The following additional selection criteria will be applied:

- The output of the call, i.e. the overall funding, should be maximised;
- If possible, each funding organisation funds at least one project;
- The projects involving partners from the widening countries should be prioritised.

Management of Projects

Setting up the Consortium

If the proposal is recommended for funding, each partner may need to submit an administrative application to the chosen national/regional funding organisation to apply for the QuantERA funding. In rare cases, specific partners in a consortium may be requested to apply for their funding from another funding organisation than the one they had chosen initially. The subsequent negotiation phase between the partner and the funding organisations follows the established procedures and, if successful, results in a contract between the two parties.

In order to ensure that the collaborative research can be conducted as planned, all partners of a consortium should request that their funding start at approximately the same date.

The administrative and financial management of funding is overseen by the respective funding organisations, according to the respective rules and guidelines.

The project must follow the *European Charter for Researchers* and the *Code of Conduct for the Recruitment of Researchers* (<https://euraxess.ec.europa.eu/jobs/charter>). The project must bear in mind gender issues and promote equal opportunities between women and men at all levels in the implementation of the research activities.

A consortium agreement managing *inter alia* the ownership and access to key knowledge (IPR, data, etc.) has to be signed by all partners and sent to QuantERA Coordination Office no later than three months after the start of a project. Some funding organisations require that the consortium agreement be signed before the contract can be finalised.

Reporting and Publications

Consortia must present the status of their project at three follow-up events organised by QuantERA. The related costs are eligible and must be secured by the consortia as part of the project's budget.

Furthermore, the coordinators of funded projects have to submit a mid-term activity report and a final activity report. These reports must be sent to QuantERA within two months after the end of each period.

Some funding organisations require separate reports for individual project partners. This is specified in the individual contracts with respective national/regional funding organisations.

Any publications resulting from QuantERA projects must acknowledge QuantERA, and an electronic copy must be sent to QuantERA. Open access publications are encouraged.

Annex: National/Regional Research Funding Organisation Specific Information

Austria

FFG – Austrian Research Promotion Agency

Contact point

Fabienne Eder

Programme Manager

+43 5 7755 5081 - fabienne.eder@ffg.at

Funding criteria and regulations

Funding commitment

Maximum funding for the QuantERA Call 2019: 1 M€.

Funding regulations

For Austrian proposers, the same regulations hold as **for cooperation projects**, see the application guidelines and regulations available at the FFG website (will be available not earlier than end November 2019):

<https://www.ffg.at/QuantERA>

<https://www.ffg.at/2019-ausschreibung-qfte-transnational>

Eligibility of a partner as a beneficiary institution

Funding of Austrian participants is available for TRLs 2 till 8:

- For companies;
- For universities and research institutes/organisations - only in cooperation with at least one Austrian company.

All Austrian applicants are encouraged to contact FFG prior to submission.

Submission of the proposal at the national level

Applications must be submitted in electronic form following these links:

<https://ecall.ffg.at/cockpit/cockpit.aspx>

Mandatory are:

- Short and Full proposal application form as requested;
- Costs and requested funding.

No application will be considered after the final submission date.

Contact point

Stefan Uttenthaler

Natascha Dimovic

Scientific Project Officer for Physics and
Astrophysics

Administrative Project Officer

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+43 1 5056740 8402 - natascha.dimovic@fwf.ac.atstefan.uttenthaler@fwf.ac.at**Funding criteria and regulations**

All Austrian applicants are strongly encouraged to contact FWF prior to submission.

For Austrian proposers, the same regulations hold as for regular stand-alone projects, see the application guidelines available at the FWF website:

http://www.fwf.ac.at/fileadmin/files/Dokumente/Antragstellung/Einzelprojekte/p_application-guidelines.pdf

In particular, this includes the limit of *max. 3 FWF-funded projects* per applicant. Note also that for this call only projects with *max. 3-year duration* runtime are accepted.

Applications have to be submitted in electronic form following this link (*signed forms still need to be sent in original form prior to the deadline*):

<https://elane.fwf.ac.at/page/panel/loginpanel>

The cover sheet has to be printed, signed, stamped and sent to the FWF office in original version.

Mandatory are:

- Scientific abstract of the joint project in English and PR abstracts in German and English
- Application form (incl. signature and stamp of the research institution)
- Programme specific data
- Attachment co-authors
- Itemisation and justification of requested funding (only FWF part)

If existing:

- National research partner
- Offer for equipment ≥ 1500 €
- Transferred equipment form

The cover sheet has to be sent to the FWF office concurrent to the submission of the joint QuantERA proposal. For a timely submission, the *date of the postmark* is decisive.

Contact point

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Joël Groeneveld

+32 2 504 9351 - florence.quist@frs-fnrs.be+32 2 504 9270 - joel.groeneveld@frs-fnrs.be**Funding criteria and regulations*****Funding commitment***

Maximum funding for the QuantERA Call 2017: 200 k€

Maximum funding per project: 200 k€/3 years. If the project involves the recruitment of a PhD student, project duration of the F.R.S.-FNRS sub-project could be up to 4 years (cf. [PINT-Multi regulations](#)).

Eligibility of a partner as a beneficiary institution

FNRS funds only basic research (low Technology Readiness Level) carried out in a research institution from the “Fédération Wallonie-Bruxelles”. The FNRS will not fund industrial partners. All eligibility rules and criteria can be found in the [PINT-MULTI regulations](#).

Submission of the proposal at national level

Applicants must provide basic administrative data by submitting an administrative application on [Semaphore](#) for the same deadline as the consortium application. Please select the “PINT-MULTI” funding instrument when creating the administrative application. Proposals invited to the second stage will be able to complete the pre-proposal form and provide information for the full proposal upon validation by the F.R.S.-FNRS.

General rules and regulations of FNRS apply: www.frs-fnrs.be.

Contact point

Milena Aleksandrova

Bulgarian National Science Fund

+359 884 171 363 - aleksandrova@mon.bg

Funding criteria and regulations***Eligible applicants***

Applicants eligible to participate in this project selection procedure are only the following entities:

- 1) Accredited universities as defined in Art.85 para.1, p. 7 of the Higher Education Act;
- 2) Research organizations as defined in Art. 47, para 1 of the Higher Education Act.

Applicants under this procedure shall be directly responsible for the implementation of the activities under the project proposal and shall not act as intermediaries, but they shall carry out activities under the project proposal on their behalf and at their expense.

Applicants to this procedure must be entities:

- Carrying out fundamental research studies; and
- Whose activities are entirely of a non-profit nature; or
- Whose activities are of both for-profit and not-for-profit nature, but these activities are clearly distinguished and their organization allows tracking of revenue and expenditures connected with their implementation, including by keeping analytical accounting. In the event that an applicant is involved in both for-profit and not-for-profit activities, the funding, expenditures and revenues shall be taken into account separately for each type of activity and on the basis of consistently applied principles of accounting of expenditures being justifiable.

Assets acquired as a result of funding under this procedure will be used only for not-for-profit activities and the provided funding shall not be used for whatever type of businesses, including the following:

- Research activities contracted by enterprises/industry;
- Consulting or other services provided to enterprises /industry;
- Renting of assets out (infrastructure / equipment).

Research team

For each project proposal the applicant shall designate a team consisting of:

- 1) Coordinator of the research team;
- 2) Members of the research team - researchers, specialists, post-graduate students and university students;
- 3) Technical personnel in consideration of project specific activities.

Requirements to participants of the research team

- 1) Coordinator of the research team is required to be a scientist holding an educational and scientific degree "Doctor" or "Doctor of Science" with the necessary scientific and management competence for a successful implementation of the project activities, verified by professional CV, publications, patent ownership (if applicable) in the respective research domain;
- 2) Persons acting as Coordinators of research project financed by BNSF competition for Scientific Research in Priority Areas in 2014 shall not be eligible to be Coordinators of research teams in this competition;

- 3) Other participants are:
 - Scientists and experts with achievements in the research area of the project proposal verified by enclosed professional CV and a list of scientific publications in the respective research domain or related ones.
 - PhD students, post-doctorates and young researchers, for whom professional CVs and lists of scientific publications should be attached, if any;
 - University students;
 - Technical personnel.
- 4) Project coordinator and members of the research team, who are holders of educational and scientific degree "Doctor" or "Doctor of Science" should be included in the BNSF database or should provide information to be included in the database;
- 5) Persons who unjustifiably have failed to submit their reports under previous BNSF contracts within the set deadlines as Coordinator of research projects after 2011, or act as Coordinators of projects which have received unsatisfactory mark in the last 3 years shall not be eligible as members of the research team under this procedure.

Full text of BNSF national requirements and eligibility conditions can be found at <https://www.fni.bg/?q=node/578>

Contact point

Kristina Kotišćak

Department for International Programmes and Funds

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Funding criteria and regulations***Funding commitment***

Maximum funding for the QuantERA Call 2019: 200.000 €

Funding criteria and regulations

Croatian applicants (Principal Investigators) are recommended to contact HRZZ prior to the submission of the proposal for the purpose of checking the national funding terms and conditions.

[Partners from the industry sector are not eligible for funding.](#) The document “QuantERA Call 2019_HRZZ upute” presenting the modalities of participation of the Croatian applicants, eligibility of the organizations and eligible costs will be available at www.hrzz.hr.

Following the conclusion of the consortium agreement between the consortium partners, the Croatian applicant in the project consortium will be required to sign a grant agreement with HRZZ for the portion of the budget provided by HRZZ.

Eligibility confirmation

The HRZZ requests the Croatian applicants to send the following documentation, not later than 10 days after the submission of the consortium proposal:

1. **Financial Plan** for the Croatian applicant (the part to be financed by the HRZZ), extracted from the *QuantERA Call 2019 - Financial Form* submitted by the project consortium;
2. **QuantERA Full Proposal** (in PDF format, sealed on the date of Call deadline);
3. **Letter of Support** in Croatian, i.e. a written commitment of the Croatian applicant's organization, accepting the proposed research and committing to its administration (signed and certified by the authorized person of the Croatian applicant's organization);
4. **Declaration of VAT status** (signed and certified by the authorized person of the Croatian applicant's organization);
5. **Declaration on the prevention of double financing** (signed and certified by the authorized person of the Croatian applicant's organization);
6. **Letters of Intent** for all collaborators within the Croatian applicant's research group who are not employees of the Croatian applicant's organization (to be delivered in a free form);
7. **Ethics approval** (if applicable), PDF document.

The forms listed under points 3 to 5 above will be available for download on the web page of HRZZ.

The electronic version of the requested documentation shall be sent via e-mail to the following address: kristinak@hrzz.hr.

Submission of financial reports at the national level

The funded Croatian applicants will have to submit annual Financial reports and justifying documentation (e.g. invoices, contracts, pay slips and similar) to HRZZ, together with a Declaration on VAT status and Declaration on the prevention of double financing for the year in question.

Contact point

Michal Vávra

Department of Research and Development

Ministry of Education, Youth and Sports of the Czech Republic

+420 234 812 853, michal.vavra@msmt.cz

Funding criteria and regulations**General information**

The national funding authority of the Czech Republic responsible for ensuring participation of the Czech entities in the present Call 2019 for Transnational Research Proposals supporting the topics of Quantum Technologies launched within the framework of the QUANTERA, ERA-NET Cofund in Quantum Technologies, is the **Ministry of Education, Youth and Sports** – Department of Research and Development, Unit for European Research Area.

Eligible partners

The participants from the Czech Republic in the projects' consortia must meet the criteria of *the research and knowledge-dissemination organisation* (hereinafter referred to as "research organisation") in accordance with the [Framework for State Aid for Research and Development and Innovation \(2014/C 198/03\)](#). These might be public universities, public research institutes and/or other entities classified as research organisations.

It is obligatory that the Czech participants involved in the projects' consortia prove compliance with the eligibility criteria and fulfilment of the conditions set by *§ 18 of the Act No. 130/2002 Coll. on Support of Research, Experimental Development and Innovation from Public Funds* and on Amendment to Some Related Acts by means of a *Statutory Declaration*. The required procedure is described and Statutory Declaration form is available on websites of the Ministry of Education, Youth and Sports: <http://www.msmt.cz/vyzkum-a-vyvoj-2/quantera>.

Eligible costs

Eligible costs for a Czech participant involved in a project consortium are defined by *§ 2 of the Act No. 130/2002 Coll. on Support of Research, Experimental Development and Innovation from Public Funds* and on Amendment to Some Related Acts. The maximum indirect costs set for the present call are 25 % (*flat rate*) of direct costs without the sub-contracting.

The *aid intensity* for activities carried out by a research organisation might be at the level of 100 % provided that the research organisation complies entirely with requirements stipulated by the Article 2.1.1 "Public funding of non-economic activities" of the [Framework for State Aid for Research and Development and Innovation \(2014/C 198/03\)](#) and proves it by means of the above-mentioned *Statutory Declaration*.

Should the above-stated criteria not be fulfilled by the Czech participant, funding rates will be adjusted appropriately by the Ministry of Education, Youth and Sports and will reach the level of 100 % for *fundamental/basic research* activities, 50 % for *applied research* activities and 25 % for *experimental development* activities.

Each Czech participant in a project consortium is requested to specify the costs related to the envisaged R&D activities in detail by using the *Eligible Costs Specification* template available on website of the Ministry of Education, Youth and Sports: <http://www.msmt.cz/vyzkum-a-vyvoj-2/quantera>

Eligibility confirmation

All of the requested documentation (Statutory Declaration and Eligible Costs Specification) shall be sent by each Czech participant in a project consortium to the Ministry of Education, Youth and Sports no later than **18th of February 2019** both by electronic correspondence and post.

The *electronic version* of requested documentation shall be sent to the address of electronic correspondence monika.kocmanova@msmt.cz.

One *signed and stamped hard copy* (by the statutory representative of research organisation) of requested documentation shall be submitted as well following the instructions stipulated on websites of the Ministry of Education, Youth and Sports: <http://www.msmt.cz/vyzkum-a-vyvoj-2/quantera>.

In the case that projects of Czech participants will be recommended for funding, based on the international evaluation outcomes, once approved by the Call Steering Committee the Ministry of Education, Youth and Sports may ask the successful Czech participants to submit additional documents either in English or Czech language in order to issue the decision on granting the national financial support according to the rules stipulated by the Ministry of Education, Youth and Sports.

Contact person

Ms. Monika Kocmanová

Ministry of Education, Youth and Sports
Department of Research and Development
Karmelitská 529/5
118 12 Prague 1
Czech Republic
Tel: +420 234 811 467
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www.msmt.cz

Contact point

Dr. Michael Adsetts Edberg Hansen

Jens Peter Vittrup

Senior Scientific Officer

Senior Advisor

+45 6190 5037 – michael.hansen@innofond.dk+45 6190 5023 – jens.peter.vittrup@innofond.dk**Funding criteria and regulations**

Projects must both comply with IFD's rules for the national Grand Solution programme

<https://innovationsfonden.dk/sites/default/files/2018-08/grand-solutions-retningslinjer-2018.pdf>

and the rules for international projects

<https://innovationsfonden.dk/sites/default/files/2018-10/general-terms-and-conditions-for-international-projects-approved-after-1-feb-2018.pdf>

All Danish applicants and co-applicants must be eligible for national project funding according to IFD's rules. Danish applicants who have not previously obtained a project grant from IFD are recommended to contact the national contact point.

Partners of an international project consortium located in a country of the QuantERA transnational consortium cannot receive investment via an IFD. They should be declared as a consortium partner instead and apply (and receive) for their funding at their respective research funding organisation.

Proposals with overlapping funding periods are only approved, if the research projects clearly address separate topics or pursue different goals in the context of this European programme.

Danish applicants may participate in one proposal only.

As investments will be managed according to IFD's rules for International projects and Grand Solutions; this includes national progress reports (technical and financial) and mandatory annual steering group meetings where at least one representative from Innovation Fund Denmark can participate.

Forms to be submitted

Applicants must provide basic administrative data by submitting an administrative application via the online submission system [E-grant](#) no later than two weeks after the deadline for the consortium application. Please find a guide for registration of national partners in international projects here:

<https://innovationsfonden.dk/sites/default/files/2018-09/national-registration-in-e-grant-of-your-international-application.pdf>

Please select the QuantERA Call 2019 when creating the administrative application.

Funding limits

IFD primarily fund applied research projects which can create knowledge based growth and employment in Denmark.

For the QuantERA IFD can fund up to 200.000€ including overhead and EU co-funding for applied research projects. The application has to include Danish industrial as well as Danish academic partners, and it has to clearly define how exactly the project (and outcome) will create value for the Danish partners, and the Danish society in general.

Furthermore, IFD can fund explorative awards to researchers who participate in a proof-of-concept type project, with the aim of a succeeding application for a national Grand Solution or EU funded quantum technology projects within the field of applied research. The maximum funding per

explorative awards is 50.000€ per researcher up to a maximum of 2 projects, and the projects should follow the same guideline as the applied research projects, i.e. create value for the Danish society.

IFD has earmarked a total of 0.5 million € to the QuantERA, implying that we can only fund 2-3 applied research projects.

Activity typology \ Applicant typology		Funding Rates for Innovation Fund Denmark			
		Enterprises and private research bodies (which meets the requirements of research organization under EU Reg. no. 651/2014 of the Commission - June 17, 2014). Funding rates are incl. overhead.			Universities in accordance with Reg. EU n. 651/2014 of the Commission - June 17, 2014). Danish Approved Technology Service Institutes (GTS) can apply for up to 60% of their cost.
		Small Enterprises	Medium Enterprises	Big Enterprises	
Basic Research	grant	60%	60%	50%	90% + overhead on 44%
Industrial Research	grant	60%	60%	50%	90% + overhead of 44%
Experimental Research	grant	33%	33%	25%	90% + overhead of 44%

The combined amount of both National and EU funding, **may not** exceed the above listed funding rates. In addition, only project partners receiving EU funding can get national funding.

Contact point

Jérôme Lasne

International Scientific Officer

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Funding criteria and regulations

The document presenting the modalities of participation of the French applicants will be available in December 2018 at <http://www.anr.fr/AAPProjetsOuverts>

Contact point

Sebastian Krug

European Operations Coordinator

VDI TZ – Funding Agency on behalf of the BMBF

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Funding criteria and regulations

Funding for German applicants under this call will be granted based on §§ 23 and 44 BHO ('Bundeshaushaltsordnung') and the related administrative regulations and BMBF guidelines. An entitlement to funding cannot be derived.

In particular, the national regulations NABF, NKBF 2017 and BNBest-mittelbarer Abruf-BMBF apply. The documents can be found at:

http://foerderportal.bund.de/easy/easy_index.php?auswahl=easy_formulare&formularschrank=bmbf

In order to be eligible for BMBF funding project proposals must demonstrate an added benefit due to the transnational cooperation.

Funding of German participants is available:

- For universities and research institutes/organisations (funding up to 100% of the total eligible costs/expenditures; universities will receive an additional lump sum ('Projektpauschale') equivalent to 20 % of the eligible expenditures);
- For companies (funding up to 50% of the total eligible costs; SMEs may receive an additional bonus of up to 10%).

Proposals involving companies shall include a scheme towards subsequent application and/or future commercial use of the expected results.

Forms to be submitted

No additional national forms are required at pre-proposal or full proposal stage.

Successful German participants are requested to provide complete BMBF application forms (AZA/AZK including annexes) within three months after the official notification of the project selection. Non-compliance may result in exclusion.

Funding limits

The requested BMBF funding must amount to at least 100 k€ per German partner over the entire duration of a project.

Moreover, at least 50 % of the total eligible costs/expenses on the part of the German participant(s) must be personnel costs/expenses.

Finally, proposers are reminded of the transnational eligibility rules on balance (see page 7):

- At most 60% of the total requested funding may be requested by partners from one country;

At most 40% of the total requested funding may be requested by a single partner.

Contact point

Mrs. Maria Gkizeli

Directorate for International Scientific and Technological Cooperation

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Funding criteria and regulations***Research categories eligible for funding***

The aided part of the research should completely fall within one or more of the following categories: industrial research, experimental development, and feasibility studies (COMMISSION REGULATION (EU) No 651/2014 article 25).

Eligible applicants

GSRT potentially supports all private and public legal entities namely: private-SMEs, private large-companies, non-profit research organizations, higher education institutions, public research organizations, public organizations (individuals and individual enterprises cannot be supported).

Budget

EUR 1.000.000 national funding that comes from structural funds and particularly from the Operational Programme for Competitiveness, Entrepreneurship and Innovation 2014-2020, Research and Innovation Strategy for Smart Specialization (RIS3).

Maximum funding per project

200.000 € per project (including indirect costs). Please note that this amount can be increased to 250.000 € per project if the Greek partner assumes project coordination.

Eligible costs

(a) personnel costs: researchers, technicians and other supporting staff to the extent employed on the project.

(b) costs on fixed assets i.e. b1) costs of instruments and equipment to the extent and for the period used for the project. Where such instruments and equipment are not used for their full life for the project, only the depreciation costs corresponding to the life of the project, as calculated on the basis of generally accepted accounting principles are considered as eligible and b2) costs for of buildings and land, to the extent and for the duration period used for the project. With regard to buildings, only the depreciation costs corresponding to the life of the project, as calculated on the basis of generally accepted accounting principles are considered as eligible. For land, costs of commercial transfer or actually incurred capital costs are eligible.

(c) costs of contractual research, knowledge and patents bought or licensed from outside sources at arm's length conditions, as well as costs of consultancy and equivalent services used exclusively for the project.

(d) additional general costs and other operating expenses, including costs of materials, supplies, travel expenses, organization of meetings, dissemination/publicity costs, audit costs, incurred directly as a result of the project implementation.

(e) indirect costs = flat rate 15% of gross personnel costs excluding VAT = 15%*(a-(VAT of a)). Indirect costs are eligible for all legal entities and include costs that do not incur directly as a result of the project implementation (e.g. administrative and management costs, utility costs).

Note: Please bear in mind that scientific management costs are eligible under category (a) whereas administrative and financial/legal management costs fall under eligible categories (e) or (d)-audit costs only.

Aid of intensity

Public research Institutes and Universities: the aid intensity can reach 100% for performing non-economic activities in accordance with point 19, article 2.1.1 of the «Framework for State aid for research and development and innovation» (2014/C 198/01)).

Private Sector: (a) 50% of the eligible costs for industrial research; (b) 25% of the eligible costs for experimental development; (c) 50 % of the eligible costs for feasibility studies.

The aid intensities for industrial research and experimental development may be increased up to a maximum aid intensity of 80% of the eligible costs. The aid intensities for feasibility studies may be increased up to 20 percentage points. Please refer to the latest national guide (p. 36-37) below for details.

Project Duration

The duration of a funded project must be 24-36 months. Under specific conditions it may be extended by 33%.

Submission at the national level is not required at this stage. A national call will be published for the submission of the approved, at the transnational level, proposals only.

This Annex is for general guidance only. More detailed information (e.g. eligibility criteria, funding rates) can be found at the latest national guide available at the following link:

http://www.gsrt.gr/central.aspx?sld=10813341110616461444510&olID=777&neID=673&neTa=12_20503_1&nclD=0&neHC=0&tbid=0&lrID=2&oldUIID=a17771011191428110891013&actionID=load

All applicants are strongly encouraged to contact the NCP prior to submission.

Contact point

Edina Nemeth

National Contact Point for Horizon 2020 ICT & FET

+36-70-221-0387 - edina.nemeth@nkfi.gov.hu

Funding criteria and regulations***Funding commitment***

The total indicative national funding for this call is € 300 000

Anticipated number of fundable research groups

2-3 research groups

Eligibility of project duration

Up to 3 years

Maximum funding per partner

150 000 €

Eligibility of a partner as a beneficiary institution

Eligible applicants from Hungary are entities falling under any of the following GFO codes:

- Enterprise with legal entity (GFO code: 11X)
- Non-profit organisation with legal entity (GFO code: 5XX)
- Budgetary units and entities (e.g. higher education institutions, municipalities;) (GFO code: 3XX)
- Enterprise with a registered office in the European Economic Area and a branch in Hungary (GFO: 226)

Eligibility of costs, types and their caps

All research-related costs in accordance with government decree 380/2014 (XII.31).

In case a partner is subject to State Aid rules, funding intensity shall be set at a level that complies with the State Aid rules in force at the time of the funding decision (Commission Regulation No 651/2014 of 17 June 2014). (The Guide for Applicants for the NN_18 national call is applicable).

Submission of the pre-proposal at the national level

Not required.

Submission of the full proposal at the national level

Following the international selection of the projects to be funded, a proposal should be formally submitted to NKFI Hivatal through its electronic proposal system (EPR). Proposers will receive guidance on the submission by NKFI Hivatal.

Submission of financial and scientific reports at the national level

Financial and scientific reports need to be submitted in accordance with the relevant rules prescribed in the international call and the national grant agreement (annually).

Information available at <http://www.nkfi.gov.hu>

Contact point

Mr. Danny Seker

ICT department, ISERD

The Israeli Technological Innovation Authority (previously - the Office of the Chief Scientist of the Ministry of Economy)

+972-3-5118121 - dan@iserd.org.il

Funding criteria and regulations

The Agency supports generic R&D that is still far from practical implementation in the market and forming bonds between the academia and the industry that will ultimately produce products based on advanced knowledge and technology. Following entities are eligible to apply:

- Industrial enterprises with R&D capabilities
- Research Organizations/Academy

Entities must be registered in Israel.

Financial viability and business soundness is verified by means of an internal check - companies that are in danger of insolvency cannot be funded.

Funding will be provided according to the rules of Nofar, Kamin or Magnetron programs:

- A project that was approved for an Israeli enterprise that involves a technology transfer from an Israeli research organization/s to Israeli enterprise/s – up to 66% of the approved budget.
- A project of an Israeli enterprise with self R&D capabilities - up to 50% of the approved budget.
- A research project of an Israeli research organization / academy, that was approved based on Nofar/Kamin program rules - up to 90%/85% of the approved budget.

The Israeli Technological Innovation Authority requires a national application, to be submitted in parallel to the international pre-proposal stage.

Israeli applicants must contact ISERD before proposal submission for the purpose of checking national funding terms and conditions.

More detailed information (e.g. eligibility criteria, eligibility of the costs and funding rates) can be found at ISERD website, [QuantERA webpage](#).

Contact point

Francesco S. Cataliotti

Chiara Mustarelli

Scientific Adviser

CNR Project Officer

info.quantera@cnr.it

Funding criteria and regulations

The document presenting the modalities of participation of the Italian applicants will be available in December 2018 at <http://www.quantera.cnr.it>

Eligible applicants: Researchers, technologists recruited at CNR Institutes or Departments and associated researchers affiliated to CNR Institutes.

Contact point

Saverio Pascazio

Alessia D’Orazio

Scientific Adviser

INFN Project Officer

Alessia.dorazio@bo.infn.it

Funding criteria and regulations

The document presenting the modalities of participation of the Italian applicants will be available in December 2018 at <https://web.infn.it/quantera/>

Eligible applicants: Researchers, technologists recruited at INFN Laboratories or Sections and associated researchers affiliated to INFN.

Contact point

Maria Luisa Rastello

Ilaria Balbo

Scientific Adviser

INRIM Project Officer

dirsci@inrim.it

Funding criteria and regulations

The document presenting the modalities of participation of the Italian applicants will be available in December 2018 at www.inrim.it

Eligible applicants: Researchers, technologists recruited at INRIM and associated researchers affiliated to INRIM.

Contact points

Juris Balodis

Maija Bundule

Science, Research and Innovation Policy Support
DepartmentScience, Research and Innovation Policy Support
Department+371 29 451 344 - juris.balodis@viaa.gov.lv+371 67 785 423 - majja.bundule@viaa.gov.lv**Funding criteria and regulations**

Eligibility criteria defined in the Regulations of the Council of Ministers of the Republic of Latvia No 259 on the procedure for providing support for participation in international cooperation programs for research and technology (adopted on 26 June 2015) are applied:

<http://likumi.lv/ta/id/274671-atbalsta-pieskirsanas-kartiba-dalibai-starptautiskas-sadarbibas-programmas-petniecibas-un-tehnologiju-joma>

Following legal persons are eligible for funding:

- R&D institutions - research institutes, universities, higher education establishments, their institutes and research centres etc.
- Enterprises and companies.

R&D institution (research institutes, universities, higher education establishments, research centres etc.) must be listed in the Registry of Research Institutions operated by the Ministry of Education and Science of the Republic of Latvia.

Private entities must be registered in the Registry of Enterprises of the Republic of Latvia and provide most of its R&D&I activities in the Republic of Latvia.

For project coordinator or partner a maximum of 70 000 Euros can be requested per project year.

The grant can be used to cover all project-related costs, which include salaries (corresponding to the level of activity in the project), travels, purchase of materials, publication costs, minor equipment and depreciations, etc. Overhead costs must not exceed 25% of eligible costs excl. subcontracting.

The project applicants/partners from Latvia are highly recommended to contact VIAA prior to submission of the project proposal to the QuantERA Call.

Contact point

Dr. Saulius Marcinkonis

Chief specialist, International programmes unit

+370 676 17256 – saulius.marcinkonis@lmt.lt

Funding criteria and regulations

Funding commitment – up to € 100.000 per project (€ 100.000 in total).

Eligible applicants:

The general funding rules of Research Council of Lithuania (LMT) apply:

the applicant is Lithuanian higher education and research institution (which is listed in the Register of Ministry of Education and Science of Republic of Lithuania);

SME eligible to apply only in collaboration with Lithuanian higher education and research institution;

The applicant who intends to act as a project leader (PL) or principal investigator (PI) has to be a scientist (researcher holding at least a Ph.D. degree);

A person, acting as a PL, PI or a core group member can participate only in one proposal per Call.

The workload of the core members of project team must be at least 20 hours multiplied by the duration of the project in months.

National funding will be provided according to the [General Rules of the Research Council of Lithuania for the competitive funding of the Research and Dissemination Projects](#) approved by the Order No V-45 of the Council Chairman on 29 January , 2018.

Contact point

Pål Sigurd Malm

Senior Adviser, Division for Innovation
NCP-FET

+47 9153 5683 – psma@rcn.no

Funding criteria and regulations

Norwegian funding in QuantERA calls shall only be applied to Norwegian research institutions.

We encourage Norwegian industry participate in not-for-profit research partnerships. Industrial partners must collaborate with a Norwegian research institution, and the planned allocation needs to be in accordance with the terms in the EU & EEA state aid rules.

Funding will be provided according to the rules of Researcher projects (Forskerprosjekt) of RCN. Up to 100% of total eligible costs may be funded. RCN does not require a national application, but it should be clear from the common application what role the Norwegian partners would have and the size of their budget.

We expect 1-3 projects and will fund up to 250 k€ per partner.

Applicants are advised that this annex is for general guidance only. For more detailed rules and regulations please refer to the national call announcement and contact the National Contact Point.

- **Rules Researcher projects:** http://bit.ly/RCN_Researcher_projects
- **State aid rules:** http://bit.ly/RCN_state_aid_rules

Contact point

Krystyna Maciejko

Department of International Cooperation

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Funding criteria and regulations

The Agency supports the following types of research/development:

- Applied research
- Experimental development

Following entities are eligible to apply:

- Micro, Small, Medium and Large Enterprises
- Research Organisations

Entities must be registered in Poland.

More detailed information (e.g. eligibility of the costs and funding rates) can be found at: <http://www.ncbir.pl/programy-miedzynarodowe/era-net-co-fund/quantera/>

Contact point

Prof. Konrad Banaszek

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Sylwia Kostka

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sylwia.kostka@ncn.gov.pl**Funding criteria and regulations**

Only proposals involving basic research (experimental or theoretical endeavours undertaken to gain new knowledge of the foundations of phenomena and observable facts, without any direct commercial use) **may be submitted in response to the call for proposals.**

- **Who can act as Principal Investigator?**
Any researcher, with a doctoral degree, employed at a Polish institution.
- **Project duration: 24 or 36 months**
- **What are the eligible costs for Polish researchers?**

We strongly encourage all applicants to read information on **eligible costs** included in the [Annex to the NCN Council's Resolution on funding granted within QuantERA Call for Proposals](#).

You can apply for funding for all costs relevant, necessary and directly connected to the proposed research project including:

- Personnel costs (please see: [Annex to the NCN Council's Resolution on funding granted within QuantERA Call for Proposals](#));
- Equipment – the cost of an individual item of equipment must not exceed PLN 500 000;
- Other costs such as:
 - Devices and software: costs of devices other than research equipment, as well as the cost of purchasing software instrumental
 - Materials
 - Outsourcing
 - Business trips (travel and subsistence costs)
 - Visits and consultations
 - Costs of knowledge transfer
 - Publication costs (incl. editing and translation costs)
 - Other consumables

EURO exchange rate: 1 EUR = 4,3218 PLN

Please note:

- All Polish applicants must register their applications in OSF submission system (<https://osf.opi.org.pl/app/adm/start.do>: UNISONO application). The online application includes the following budget table:
http://ncn.gov.pl/sites/default/files/pliki/UNISONO_budget_table.xlsx.
- Overhead costs must not exceed **a maximum of 40%** of the total eligible costs (excl. equipment) and may not be increased during the course of a research project.
- Administrative personnel costs and costs of organisation of conferences have to be covered from overheads.
- If one international project includes partners from two different Polish Host Institutions, these institutions must apply as a group of entities. Each Host Institution comprising this group has a separate budget, but the limit applies to the group as a whole.

- Applicants are obliged to adhere to the rules included in the [Annex to NCN Council's Resolution on funding granted within QuantERA Call for Proposals](#).
- NCN Council's statement on the criteria for employing a post-doc in research projects funded by the NCN is available here: https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2018/uchwala102_2018.pdf
- Information about Personal Data Processing at NCN is available under the following link: <https://ncn.gov.pl/dane-osobowe?language=en>.

Contact point

Rui Durão

Marta Abrantes

Departamento de Relações Internacionais – FCT

Departamento de Relações Internacionais – FCT

+351 21 391 15 32 – ruı.durao@fct.pt+351 21 391 15 96 – marta.abrantes@fct.pt**Funding criteria and regulations*****Funding regulations***

All funding to Portuguese applicants is legally framed by “Regulamento de projetos financiados exclusivamente por fundos nacionais”, available at: <https://www.fct.pt/apoios/projectos/regulamentofundosnacionais.phtml.en>

Concerning Portuguese applicants, the content of that regulation has precedence over any information that is published in this document, in QuantERA’s website, or in FCT’s webpage dedicated to QuantERA, in <https://www.fct.pt/apoios/cooptrans/eranets/QuantERA/index.phtml.en>

Eligible institutions

Eligible institutions are those that are registered in Portugal, and fall into one of the two following categories:

a) Non-entrepreneurial entities of the R&I system, namely Higher education institutions, their institutes and R&D units; State or international laboratories with head office in Portugal; Non-profit private institutions whose main object is R&D activity; Other non-profit public and private institutions developing or participating in scientific research activities.

b) Companies.

Each Portuguese applicant has to send to the Call National Contact Point a Statement of Commitment. See details in <https://www.fct.pt/apoios/cooptrans/eranets/QuantERA/index.phtml.en>

Funding amount and rates

The Portuguese commitment to this call is of 250.000 EUR. The funding of each proposal with Portuguese applicants is limited to 250.000 EUR / Project if the coordinator is from PT; or limited to 150.000 EUR / Project if all the PT team(s) is (are) only participant(s).

Funding rate for eligible institutions described above in a) is of 100% of eligible costs. Funding rate for eligible institutions described above in b) is of 50% of eligible costs.

A full description of funding procedures and eligible costs is available at:

<https://www.fct.pt/apoios/projectos/regulamentofundosnacionais.phtml.en>

Contact point

Nicoleta Dumitrache

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Funding criteria and regulations

The document presenting the modalities of participation of the Romanian applicants is available at:
<http://uefiscdi.gov.ro/articole/4536/Pachet-de-informatii-ERANETERANET-Cofund.html>

Type of research eligible for funding:

Fundamental/basic, experimental research, industrial research

Beneficiaries

Universities, national institutes, SMEs, other institutions with R&D activity

Contact point

Jan Barancik, PhD.

Head of International Cooperation Department

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Funding criteria and regulations***Type of research eligible for funding: Eligible TRL range***

Basic and targeted applied research.

Funding rates (approx.)

Up to 100%.

Major eligibility restrictions (e.g. types of organisations, thematic restriction)

Only research Institutes of the Slovak Academy of Sciences are eligible organisations for funding by SAS (up to 100%). Applicants from other Slovak R&D centres (universities and/or other organisations) have to cover the project costs from their own sources (Letter of Commitment). In addition to this, the teams outside of SAS can be consortium members but not the coordinator of the consortium.

Eligibility of principal investigator or other research team member

Each researcher of the core research team of a project consortium Slovak partner (other than the Principal Investigator) must have a job contract with or a fellowship with such a Slovak project partner, lasting until the end of the project or beyond. The principal Investigator of the research team of a project consortium Slovak partner must be a senior researcher having a job contract with such a project partner, lasting until the end of the granted project or beyond.

The participation of the young scientists (Early Career Scientists) is strongly recommended. The Early Career Scientist must have been awarded his/her first doctoral degree at least 3 and up to 10 years prior to the pre-proposal submission deadline of the 2018 Joint Call.

Additional eligibility criteria - Eligible costs as defined in the QuantERA Joint Call 2019 for Proposals text can be applied unless they are in conflict with the SAS Financial Rules for awarding grants for research projects. Priority is given to the SAS Financial Rules. https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=25&news_no=7114

More details in the national/regional call announcement:

Initial funding commitment: up to 240.000 €

Anticipated number of funded projects: 1-2

Maximal annual budget per project: 40.000 €

National Phase: Submission of the proposal at the national level will be carried out once the international evaluation and the ranking list have been performed and endorsed by the QuantERA 2019 Joint Call Steering Committee (CSC) and the Slovak project partner has been informed by the project consortium coordinator and invited by the SAS to submit the proposal to it (Formular MVTs). The presidium of SAS makes the final decision concerning the approval of funding (according to internal rules of SAS).

Further guidance: www.sak.sk ; Act No. 133 Act of February 2002 on the Slovak Academy of Sciences; Financial rules for awarding SAS grants for research projects in the framework of ERA.Net programme for research institutes of SAS; principles of allocation of funds for the institutes of SAS to support projects in the field of international scientific cooperation.

For more information please contact the NCP

Contact point

Andrej Ograjenšek

Senior Advisor

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All Slovenian applicants must refer to the guidelines for Slovenian applicants published on the MIZS webpage (http://www.mizs.gov.si/si/javne_objave_in_razpisi/javni_razpisi/).

Legal basis – national regulation : State Administration Act (Zakon o državni upravi (Uradni list RS, št. 113/05 - UPB4, 89/07 - Odl.US, 126/07 - ZUP-E, 48/09, 8/10 - ZUP-G, 8/12 - ZVRS-F, 21/12, 47/13, 12/14, 90/14 in 51/16)) - Article 16 and 39; Public Finance Act (Zakon o javnih financah (Uradni list RS, št. 11/11- uradno prečiščeno besedilo, 14/13 – popr., 101/13, 55/15 – ZfisP, 96/15 – ZIPRS1617 in 13/18)) - Article 106. j; Regulation on the procedure of standards and manners to allocate means for the promotion of the evolutionary programme and the preferential tasks (Uredba o postopku, merilih in načinih dodeljevanja sredstev za spodbujanje razvojnih programov in prednostnih nalog (Uradni list RS, št. 56/11)); Implementation of the Republic of Slovenia's Budget for 2018 and 2019 Act (Zakon o izvrševanju proračunov Republike Slovenije za leti 2018 in 2019 (ZIPRS 1819) (Uradni list RS, št. 71/17 in 13/18-ZJF-H)); Integritty and Prevention of Corruption Act (Zakon o integriteti in preprečevanju korupcije (Uradni list RS, št. 69/11 – uradno prečiščeno besedilo)); Resolution on the National Research and Development Programme 2011-2020 (Resolucije o raziskovalni in inovacijski strategiji Slovenije 2011-2020 (RISS) (Uradni list RS, št. 43/11)), Research and development Act (Zakona o raziskovalni in razvojni dejavnosti (Uradni list RS, št. 22/06 – UPB1, 61/06-ZDru-1, 112/07, 9/11,57/12-ZPOP-1A in 21/18-ZNOrg)); Decree on norms and standards used to determine funding for research activities financed from the Republic of Slovenia budget (Uredbe o normativih in standardih za določanje sredstev za izvajanje raziskovalne dejavnosti, financirane iz Proračuna Republike Slovenije (Uradni list RS, št. 103/11, 56/12, 15/14, 103/15, 27/17 in 9/18)); Rules on criteria for establishing compliance with the conditions for being the head of a research project (Pravilnik o kriterijih za ugotavljanje izpolnjevanja pogojev za vodjo raziskovalnega projekta, Uradni list RS št. 53/16); Community Framework for State Aid for Research and Development and Innovation the provisions of the Community Framework for State Aid for Research and Development and Innovation (OJ EU C 198, 27. 6. 2014) (Okvir za državno pomoč za raziskave in razvoj ter inovacije (2014/C 198/01)); National scheme for state aid in Research and Development (Program za spodbujanje raziskav in razvoja Ministrstva za izobraževanje, znanost in šport na področju znanosti 2016-2020, št. 631-1/2016-1 z dne 8. 1. 2016); National strategy of open access to scientific publications and research data in Slovenia 2015-2020 (Nacionalna strategije odprtega dostopa do znanstvenih objav in raziskovalnih podatkov v Sloveniji 2015-2020, št. 60300-5/2015/5 z dne 3. 9. 2015).

Eligibility of a partner as a beneficiary institution: research organizations as defined in the national [Research and Development Act](#) (Zakon o raziskovalni in razvojni dejavnosti – ZRRD). All participating institutions have to be registered in the Slovenian Research Agency register of research institutions (Informacijski sistem o raziskovalni dejavnosti v Sloveniji - Sicris).

Eligibility of principal investigator and other research team members: The project activities of the Slovenian partner have to be under the supervision of the primary investigator/primary researcher who fulfills the requirements for project leader as defined in Art. 29 of the national Decree on norms and standards used to determine funding for research activities financed from the Republic of Slovenia budget (Uredba o normativih in standardih za določanje sredstev za izvajanje raziskovalne dejavnosti,

financirane iz Proračuna Republike Slovenije, Uradni list RS, št. 103/11, 56/12, 15/14, 103/15, 27/17 in 9/18) hereinafter: Decree on criteria and standards). The criteria are further determined in the [Rules on Determining the Fulfillment of Conditions for a Research Project Leader](#) (Pravilnik o kriterijih za ugotavljanje izpolnjevanja pogojev za vodjo raziskovalnega projekta). All participating researchers have to be registered in the Slovenian Research Agency register of researchers (Sicris) and must have available research hours.

Eligibility of costs: MIZS will fund all eligible costs of Slovenian researchers participating in successful transnational projects, recommended for funding in accordance with the *Decree on criteria and standards*. Eligible costs are defined based on the FTE value according to the Slovenian Research Agency's research project categorization (A, B, C or D based on the research conducted). Eligible costs must be directly related to the research conducted and should include personnel, material and equipment costs as elements of the FTE. Indirect costs are eligible. The value is calculated based on the FTE value of category A, B, C, or D research projects, under the condition that costs under each of the specific FTE elements are appropriately decreased (by a max. of 20% for indirect costs). Providing the stipulated conditions are met, the Public Procurement Act (Zakon o javnem naročanju (Uradni list RS, št. 91/15 in 14/18) applies.

Period of eligibility of public expenditures: as of budgetary year 2020 until the end of the budgetary year 2023.

Period of eligibility of expenditures on the project: From the starting date of the transnational project stipulated in the consortium agreement for a period of 36 months, with a prescribed additional 30 day period for the payment of invoices related to the project costs. The period of eligibility of expenditures on the project can only start from the date the national contract enters into effect. The exact duration of the project will be defined in the contract between MIZS and the selected Slovenian partner, after the consortium agreement between the selected consortium partners enters into force.

National funding: max. 300,000 EUR including VAT

Total requested funding per project: for all Slovenian partners within one consortium must not exceed 100,000 € per year (300,000 € for the total project duration of 36 months).

Type of research funded: basic/applied – for Slovenian partner TRL range: 1-6. The type of research conducted by Slovenian researchers must be defined and explained in the project proposal (e.g. in the Comments on budget section).

Funding: 100 % for research organization (such as universities, public and private research institutes) whose financed activity is non-economic in accordance with the provisions of Community Framework for State Aid for Research and Development and Innovation. Wide dissemination of all research results on a non-exclusive and non-discriminatory basis is required.

National contracting negotiations: will commence after the projects are selected for funding on the level of the transnational call. National documentation, including evidence of the starting date of the transnational project (in the form of a Consortia Agreement or statement on the starting date by the transnational project coordinator), will be a prerequisite for signing the contract on national level. All Slovenian applicants are strongly advised to contact the Slovenian National Contact Person, Mr. Andrej Ograjšek before preparing proposals for application (andrej.ograjsek@gov.si; +386(1)4784634).

Contact point

Administrative and technical issues:

Scientific issues:

Representative:

Watsé Castelein

Dr. Amador Caballero

Severino Falcón

+34 9160 38876 - era-ict@aei.gob.es**Funding criteria and regulations*****Funding programme***

Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad, Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020. [Enlace a Plan Estatal](#). The instrument for funding the Spanish groups will be the Spanish Call on International Joint Programming (*Programación Conjunta Internacional*) or equivalent. Only as a reference, the beneficiaries are advised to read the call [PCI 2018](#).

The Spanish legal entities granted are obliged by the regulations established in this PCI call and by the funding limit specified below.

Call will be managed by the [Subdivisión de Programas Científico-Técnicos Transversales, Fortalecimiento y Excelencia](#).

Purpose of funding

The projects granted by the AEI must be aligned with the main objectives described in the [Programa Estatal](#).

Funding commitment

Maximum funding for the QuantERA call 2019: 500.000 €

Eligible criteria

The **eligible entities** for AEI funding are:

Non-profit research organisations according to the respective PCI call (*Programación Conjunta Internacional*).

Although private enterprises will not be funded through the PCI Call, the Spanish industrial sector is welcome to participate in the transnational consortia using their own funds.

The Spanish research groups that apply for funding to AEI must comply with the requirements established by this transnational call and with the final rules on eligibility to be defined in the respective PCI call, to be published [here](#).

Additional eligibility criteria**Mandatory:**

Spanish Principal investigators **must be** eligible according to the respective PCI call and must have experience as investigators in projects funded by the Plan Nacional I+D+I 2008-2011, the Plan Estatal I+D+I 2013-2016, ERC Grants, or European Framework Programmes or other relevant international programmes.

Not allowed:

- Principal Investigators are not allowed to apply for funding in more than one proposal of the QuantERA call 2019.

- Principal Investigators are not allowed to apply for funding in more than one proposal in the same PCI call.
- Principal Investigators are not allowed to apply for funding in two consecutive PCI calls (or their equivalent).
- Principal Investigators must remain unchanged between the proposal to this transnational call and the respective PCI call.

AEI will avoid double funding (overlapping with other EU or national funding), and will not grant projects or parts of projects already funded.

Eligible costs

- Personnel costs for temporary employment contracts (scholarships are not eligible).
- Current costs, small scientific equipment, disposable materials, travelling expenses and other costs that can be justified as necessary to carry out the proposed activities.
- Indirect costs (overheads) or clinical assays (proofs of concept, proofs of principle) are not eligible for funding in the PCI call.

Funding rates

The following funding limits are considered eligibility criteria. Proposals not respecting these limits could be declared non eligible.

- Maximum per legal entity and proposal eligible for AEI should not exceed 40.000 € per year (up to 120.000 € for three year project). If two or more legal entities participate in the same proposal the AEI part should not exceed 50.000 € per year (up to 150.000 € for three year project).
- For experimental groups, the above limits are increased: Up to 50.000 € per year (up to 150.000 € for three year project) for one Spanish partner. Up to 65.000 € per year (up to 195.000 € for three year project) for the whole Spanish part in case more than one Spanish partner participates in the same proposal.
- If the transnational proposal is led by a PI eligible for AEI a maximum of 6.000 € per year in addition.

Centres formed by different Spanish legal entities will be considered as a unique entity, and thus the maximum funding should not exceed the limits per proposal established above (for example mixed centres).

The final funding will take into account the transnational evaluation of the collaborative proposal, the scientific quality of the Spanish group, the added value of the international collaboration, the participation of the industrial sector, and the financial resources available.

Mandatory acknowledgement

Any publication or dissemination activity resulting from the granted projects must acknowledge the AEI: "Project (reference nº XX) funded by the AEI through the PCI call (or its equivalent)".

Contact point

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Funding criteria and regulations

Eligibility for applying to VR: VR funds basic research of the highest scientific quality, and promotes research collaboration and the exchange of experience.

Only legal persons are eligible as partners, natural persons are not allowed.

A researcher may only apply for funds from VR in **one** application in the QuantERA Call 2019.

A researcher who already receives funding from an ongoing QuantERA project is not eligible to apply.

The investigators need to hold a PhD at the time of application.

The grants distributed by VR must be administrated by a Swedish university, higher education institution (HEI) or other public organisation that fulfils the Swedish Research Councils criteria for an administrating organisation. VR's general terms and conditions for grants are available at :

<https://vr.se/english/calls-and-decisions/grant-terms-and-conditions/general-grant-tc.html>

Eligibility of costs, types and their caps

The grant can be used to cover any type of project-related costs, for example salaries (including your own salary, corresponding to your level of activity in the project), travel (including visits to, and stays at, research facilities), publication costs, minor equipment and depreciations, etc. The grant may not be used for scholarships. If the project involves a doctoral student, project funding may not be used to pay salary for the time the doctoral student is teaching. The minimum amount for which you may apply is SEK 400 000 per year, including indirect costs.

Submission of the pre-proposal to VR:

No.

Submission of full-proposal to VR:

Yes, the full proposals must be resubmitted at national level through PRISMA. To do so, visit:

Research project grant for international collaboration on quantum technologies (QuantERA)

Sve: www.vr.se/5.4c3df121669c50e9eb5dd.html

Eng: www.vr.se/5.4c3df121669c50e9eb69a.html

Submission of financial and scientific reports:

Yes, if funded, submission of financial reports will be annual and a scientific report must be submitted to VR at the end of the project.

Contact point

Dr. Georges Klein

Scientific Officer

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Funding criteria and regulations

Projects must comply with SNSF Project Funding (division II) [regulations and practices](#).

In particular, all Swiss applicants and co-applicants must be eligible for the Project Funding scheme, see also the [Regulations on project funding](#). Swiss applicants who have not previously obtained a Project grant in division II are encouraged to contact the national contact point.

Partners of an international project consortium located in a country of the QuantERA transnational consortium cannot be declared as project partners in the sense of article 11.2 of the SNSF Funding Regulations. They should be declared as consortium partner instead and apply for their funding at their respective research funding organisation.

Article 17, cl. a, of the SNSF Funding Regulations only applies in the sense that proposals with overlapping funding periods are only approved if the research projects pursue different goals in the context of this European programme than any ongoing projects by the same applicant.

Article 7.3 of the Regulations on project funding applies. Swiss applicants may participate in at most one QuantERA proposal.

Researchers based in Switzerland who are beneficiaries of a project funded through the Quantum Flagship are not eligible for this QuantERA call. Any funds available via collaborations, in particular within a project of the Quantum Flagship, have to be declared as “further requested and available funds”.

Grants will be managed according to [standard SNSF rules](#); reporting requirements duplicating those of QuantERA will not be enforced.

Forms to be submitted

Applicants must provide basic administrative data by submitting an administrative application in [mySNF](#) for the same deadline as the consortium application. Please select the “Programmes/ERA-NET” funding instrument when creating the application.

Contact point

Serkan ÜÇER

H2020 FET National Contact Point

+90 312 298 1787 - ncpfet@tubitak.gov.tr

Funding criteria and regulations

Selected proposals will be funded under either:

- ARDEB 1001 Scientific and Technological Research Projects Funding Program, or
- TEYDEB 1509 International Industrial R&D Funding Programme

In general: proposals that are more academic research oriented are advised to apply for the ARDEB 1001 Research Projects Programme. Proposals that are more commercial/industrial research oriented are advised to apply for the TEYDEB 1509 International Industrial R&D Funding Programme. Researchers should identify the most appropriate program for their proposals by analysing the program details in which can be found on:

- ARDEB 1001: <https://www.tubitak.gov.tr/en/funds/academy/national-support-programmes/content-1001-scientific-and-technological-research-projects-funding-program>
- TEYDEB 1509: <https://www.tubitak.gov.tr/en/funds/industry/international-support-programmes/content-1509-tubitak-international-industrial-rd-projects-grant-programme>

In addition to international submission, Turkish partners also need to complete their national submissions in our national submission system. The national application procedure will be published in the website www.h2020.org.tr before the deadline.

It is strongly recommended to contact NCP before the submitting the proposal.

Contact point

Wendy Carr

Helen Hunt

Quantum Technologies Manager

Senior Quantum Technologies Manager

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Funding criteria and regulations**General**

Up to £1M is available to support 4 projects involving researchers based in UK Higher Education Institutions or eligible research organisations. Based on a maximum of £250,000 per consortia.

Eligibility

Before preparing a proposal, prospective applicants should familiarise themselves with:

- 1) The eligibility of investigators for EPSRC funding:

<https://www.epsrc.ac.uk/funding/howtoapply/fundingguide/eligibility/investigators/>

- 2) The eligibility of organisations for EPSRC funding:

<https://www.epsrc.ac.uk/funding/howtoapply/fundingguide/eligibility/organisations/>

- 3) The eligibility requirements relating to resources:

<https://www.epsrc.ac.uk/funding/howtoapply/fundingguide/resources/>

All consortium 'partners' (research groups) that request funding from EPSRC must be represented by a Principle Investigator. The Principle Investigator must fulfil EPSRC's [standard eligibility requirements](#) (see above).

Eligible [Investigators](#) can only request EPSRC funding on **one** proposal submitted to this call.

Target outcomes open for UK funding as described in the QuantERA call document are; Quantum Communications, Quantum Simulation, Quantum computation and Quantum metrology sensing and imaging. We are expecting this research to align with the research priorities of the UKRI EPSRC Quantum Technology theme.

How to Apply

*In addition to the procedure set-out above, **Principle Investigators of UK partners must register their intention to submit by emailing EPSRC at : quantumtechnologies@epsrc.ukri.org before the pre-proposal submission deadline. We will then sent them a link to complete a smart survey form.***

Principle Investigators of successful UK partners will be invited to make a submission through the Je-S system following the notification of successful proposals.