



QUANTERA

ERA-NET Cofund in Quantum Technologies

Call 2017 for Transnational Research Proposals

Supporting the topics of

Quantum Information and Communication Sciences & Technologies

Deadline (pre-proposals): 15th of March 2017, 17:00 CET

Deadline (full proposals): 30th of June 2017, 17:00 CET

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

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Maximum call budget: €34 M



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Key Facts & Figures

QuantERA

QuantERA is a consortium of national/regional research funding organisations supporting research in Quantum Information and Communication Sciences and Technologies (Q-ICST). QuantERA is itself supported by the European Union's Future and Emerging Technologies scheme (FET).

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

Call 2017

Scope: Quantum Information and Communication Sciences & Technologies (Q-ICST)

Maximum call budget: €34 M

International consortium: The project consortia must have a minimum of 3 partners requesting funding in at least 3 of the following countries:
AT, BE, BG, CH, CZ, DE, DK, ES, FI, FR, GR, HU, IE, IL, IT, LV, NL, NO, PL, PT, RO, SK, SE, SI, TR, UK

Standard consortium size: Three to six partners

Evaluation: Pre- 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: research funding organisation, as described in the Annex (p. 14)

Tentative timeline

15th of March 2017, 17:00 CET **Deadline for pre-proposal submission**

May 2017 Notification of accepted pre-proposals

30th of June 2017, 17:00 CET **Deadline for full proposal submission**

September 2017 **Rebuttal stage**

October 2017 Notification of accepted proposals

Early 2018 Start date for funded projects

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Research Targeted in the Call

The QuantERA consortium has created a common funding instrument to support European research consortia that engage in long-term research in the area of Quantum Information and Communication Sciences and Technologies (Q-ICST). Through this instrument, the national/regional research funding organisations of the QuantERA consortium support and join the European Union's Future and Emerging Technologies (FET) agenda. By coordinating their efforts, they can support more diverse research communities, who are able to tackle the most challenging and novel research directions.

Submitted proposals should be of an FET-like nature¹ and contribute to the development of the European research. The transformative research done in QuantERA should explore collaborative advanced multidisciplinary 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.

QuantERA aims at spreading research excellence throughout the whole European Research Area. Therefore, proposal consortia are encouraged to include partners from the **widening countries** participating in the call: Bulgaria, Czech Republic, Hungary, Latvia, Poland, Portugal, Romania, Slovakia, Slovenia, and Turkey.

Target Outcomes

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

1. Quantum communication

Methods/tools/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.

2. Quantum simulation

Platforms 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.

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.

¹ See 'FET Gatekeepers' p. 7 at

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-fet_en.pdf

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.

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.

6. Novel ideas and applications in quantum science and technologies

Quantum phenomena, such as superposition and entanglement, as means to achieve new or radically enhanced functionalities.

Expected Impacts

Funded projects are expected to significantly advance the state-of-the-art of quantum sciences and technologies 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.

Management of the Call

The Call Secretariat is jointly set up at ANR (France) and EPSRC (United Kingdom) 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 research 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 pre-proposals invited to submit a full proposal, 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 Information and Communication Sciences and Technologies.

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

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 then provided directly to the selected individual consortium partners by the respective national/regional research 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). 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**.

QuantERA projects have a duration of **either 24 or 36 months**. QuantERA projects are expected to start early in 2018.

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.

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 criteria for partners are specific to the chosen funding organisation. **Be aware that some funding organisations:**

- Require that eligibility of partners is checked with them prior to applying;
- Fund only non-commercial research.

The table on the next page provides an overview of each funding organisation's eligibility rules. Further details, including those of the funding organisations' contact points, can be found in the annex.

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), 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 at the time of publication of the present document.

** Some funding organisations require that partners contact them **prior to submission (pre-proposal and full proposal stages)** 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	0.50	1-3	-	Recommended	Yes	Yes if together with an academic/research partner	fabienne.eder@ffg.at peter.kerschl@ffg.at
Austria	FWF	0.50	-	Up to 400 k€ per project	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	No	No	florence.quist@frs-fnrs.be joel.groeneveld@frs-fnrs.be
Belgium	FWO	1.50	-	Up to 500k€ per project	Strongly recommended	No	No	alain.deleener@fwo.be erantet@fwo.be
Bulgaria	BNSF	0.30	2-3	Up to 150k€ per project	Yes	Yes	No	v.milkova@mon.bg
Czech Republic	MEYS	0.20	1-2	-	Yes	Yes	No	monika.kocmanova@msmt.cz
Denmark	IFD	1.00	3-5	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 300k€ (2-3 projects)	Strongly Recommended	Yes	Yes	michael.hansen@innofond.dk
Finland	AKA	0.70	2-3	Up to 150 k€ per year	Recommended	No	No	jukka.tanskanen@aka.fi
France	ANR	2.50	-	Up to 450 k€ per project and up to 300 k€ per partner	Recommended	No	Yes if together with a FR academic partner	mathieu.girerd@anr.fr
Germany	BMBF, VDI/TZ	4.00	5-10	-	Strongly recommended	No	Yes	krug@vdi.de
Greece	GSRT	0.40	4	Up to 100 k€ per project	Recommended	No	Yes	mkoutr@gsrt.gr
Hungary	NKFIH	0.30	1-3	Up to 150 k€ per partner	Recommended	No	Yes	edina.nemeth@nkfih.gov.hu
Ireland	SFI	0.50	2-3	Up to 250 k€ per project	Yes	Yes	No	h2020@sfi.ie
Israel	MATIMOP	0.50	-	-	Yes	Yes	Yes	hadas@iserd.org.il

Italy	CNR	1.50	-	At least 150k€ per project Up to 450k€ per project	Recommended	Yes	No	info.quantera@cnr.it
Italy	MIUR	0.40	-	Up to 150 k€ per project	Recommended	Yes	Yes	giorgio.carpino@miur.it aldo.covello@miur.it
Latvia	VIAA	0.40	1-3	Up to 70 k€ per year per partner	Recommended	No	Yes	juris.balodis@viaa.gov.lv
The Netherlands	NWO	1.00	4-5	Up to 250 k€ per project	Recommended	No	No	michiel.van.den.hout@fom.nl m.vandenhout@nwo.nl
Norway	RCN	0.50	1-3	Up to 250 k€ per partner	Recommended	No	Yes	psma@rcn.no
Poland	NCBR	0.50	-	-	Recommended	No	Yes	michal.chomczyk@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	rui.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	-	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	MINECO-AEI	0.50	3-4	For simulation and theory groups: Up to 35 k€ per year per partner. Up to 46 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 8 k€ per year in addition.	Not needed	No	No	era-ict@mineco.es
Sweden	VR	1.00	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	3-6	-	Recommended	Yes	Yes, but only basic research, not pursuing direct commercial goals	quantera@snf.ch
Turkey	TUBITAK	0.40	2-3	Up to 360000 TRY (approx. 110 k€) (indirect costs excluded) per project	Yes	Yes	Yes	ncpfet@tubitak.gov.tr ncpict@tubitak.gov.tr
United Kingdom	EPSRC	2.30	3-8	-	Yes	Yes	No	richard.gunn@epsrc.ac.uk

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 **two-stage submission and evaluation procedure**. First, a short outline proposal, the pre-proposal (max. 10 pages), is submitted. If the pre-proposal is selected, the consortium is invited to submit a detailed proposal, i.e. the full proposal.

The projects presented in the full proposal and in the pre-proposal **must be consistent**². Any change to the plans described in the pre-proposal should be explained and justified.

At both stages of the application, the coordinator prepares a joint proposal (pre-proposal or full proposal) for the whole consortium, using the template available on the QuantERA website (<http://www.quantera.eu/>). The form is submitted via the electronic submission system on the website.

In addition, a Partner Search Tool is provided at <http://www.quantera.eu>.

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.

3. Rebuttal Stage

The external evaluations of the full proposal (2nd stage) will be forwarded to the coordinator **in September**. The coordinator will have 10 calendar days to respond, if she/he wishes to do so.

In this 'Rebuttal Stage', the coordinator (in the name of the consortium) has the possibility to comment on the evaluations, in order to address any factual inaccuracies raised by the experts. The comments (if any) will be considered by the Evaluation Panel in preparation for the final Evaluation Panel meeting.

² Prior to the 2nd stage, the Call Steering Committee (see 'Management of the Call' section) may list countries with a risk of budget underspending. The projects invited to the 2nd stage will be informed of the possibility to add a partner eligible for funding from these countries, provided that such an addition would add value to and strengthen the project and the consortium.

Evaluation and Selection Procedure

Evaluation

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

At both stages of the evaluation, 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).

The eligible proposals are evaluated according to the following criteria:

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

Compliance with 'FET Gatekeepers'³

- 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, 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.

³ See 'FET Gatekeepers' p. 7 at

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-fet_en.pdf

Selection

The selection decision of the projects to be recommended for funding to the national/regional research funding organisations has to follow the ranking list. If at a given rank in the list not all ex aequo proposals can be selected, the following criteria will be applied:

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

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 research 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 the follow-up events organised by QuantERA (three or four). 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 research funding organisations.

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

Annex: National/Regional Research Funding Organisation Specific Information

AT – Austria

FFG – Austrian Research Promotion Agency

Contact point

Fabienne Eder

Programme Manager

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

Peter Kerschl

Programme Manager

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Funding criteria and regulations

Funding commitment

Maximum funding for the QuantERA Call 2017: 500 k€.

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 January 20, 2017):

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

Eligibility of a partner as a beneficiary institution

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

- For universities and research institutes/organisations;
- For companies - only in cooperation with universities and/or research institutes/organisations.

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:

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

No application will be considered after the final submission date.

Contact point

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Natascha Dimovic

Administrative Project Officer

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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. 2 FWF-funded projects* per applicant. Note also that for this call only projects with *max. 3-year duration* runtime are accepted.

Applications can 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>

Alternatively, classical application forms can be found following this link:

<http://www.fwf.ac.at/en/research-funding/application/international-programmes/joint-projects-era-nets/>

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
- Itemisation form-equipment
- Offer for equipment ≥ 400 €
- Transferred equipment form

Filled and signed FWF forms have 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

Florence Quist

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€

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.

The applicant must be affiliated to a research institution from the Fédération Wallonie-Bruxelles. The applicant should also:

- be a permanent researcher of FNRS (Chercheur qualifié, Maître de recherches or Directeur de recherches),
- or hold a tenure track position (or an assimilated position including pending tenure track) within a research institution from the Fédération Wallonie-Bruxelles,
- or be a permanent research staff member of a federal scientific institution including the Ecole Royale Militaire in which case he can act as a co-promotor only.

The applicant should not have reached retirement at the starting date of the project. If the applicant reaches the age of retirement in the course of the project, he should precisely describe in the proposal how the handover will be managed

Eligibility of costs, types and their caps

- Personnel:
 - Scientifique doctorant (€37.200/year)
 - Scientifique non postdoctoral (€63.300/year)
 - Scientifique postdoctoral (€73.800/year)
 - Technicien €53.700 (full time/year) - €27.200 (half-time/year)
 - Chercheur temporaire post-doctoral €47.600/year

The categories « scientifique doctorant » and « chercheur temporaire postdoctoral » can only be full-time positions. The three other positions can be either full-time or part-time.

The usual duration of ERA-NET research programmes is three years. However, when the project involves a PhD student, the principal investigator can apply for an additional one-year funding in order to complete the four years PhD programme. This request should be submitted to FNRS six month before the end of the project, together with the written agreement from the “comité d’accompagnement”.

- Equipment (max €50.000/year)
- Running costs: travel expenses, organization of small scientific events in Belgium, consumables and the following support costs:
 - Book implementation
 - Dictionary implementation
 - Book purchase
 - Encoding
 - Software licence rental
 - Conference registration
 - Small office supplies (IT equipment, others)
 - Scanning

“Overhead” is not an eligible cost. If the project is selected for funding, these costs will be subject to a separate agreement between the institution of the beneficiary and the FNRS. General rules and regulations of FNRS apply: www.frs-fnrs.be

Submission of the proposal at the national level

No parallel submission of the proposal at the national level is required.

Contact point

Alain Deleener

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Funding criteria and regulations

Funding criteria and regulations can be found at <http://www.fwo.be/en/fellowships-funding/research-projects/sbo-projects> (see objective, features, profile and conditions, regulation and downloads).

With regard to the conformity with the objectives of the SBO-programme (incl. valorisation/impact) applicants are strongly recommended to contact the contact points.

Contact point

Violeta Milkova

Bulgarian National Science Fund

+359 (0) 888 788 052 - v.milkova@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

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 must 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 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.

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 administrative applications via the online submission system [mySNF](#) for the same deadlines as the consortium applications are submitted. Please select the “Programmes/ERA-NET: Pre-proposal” funding instrument when creating the administrative application for the pre-proposal and “Programmes/ERA-NET” if you are invited to submit a proposal for the second stage. The pre-proposal can be used as a template when the full proposal is created in mySNF.

Contact point

Monika Kocmanová

Department of Research and Development

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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 2017 for Transnational Research Proposals supporting the topics of Quantum Information and Communication Sciences and 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: www.msmt.cz

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: www.msmt.cz

Eligibility confirmation

All of the requested documentation (i.e. 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 25th of June 2017 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: www.msmt.cz

Contact person

Ms. Monika Kocmanová

Ministry of Education, Youth and Sports
Department of Research and Development
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Contact point

Sebastian Krug

European Operations Coordinator

VDI TZ – Funding Agency on behalf of the BMBF

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Funding criteria and regulations

The national regulations AnBest-P, BNBest-BMBF 98 and/or NKBF 98 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

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

Moreover, proposers are reminded of the transnational eligibility rules (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

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

http://innovationsfonden.dk/sites/default/files/strategi_og_generelle_kriterier_2016.pdf

and the rules for international projects

<http://innovationsfonden.dk/sites/default/files/download/2015/02/11/6.udgaveGuidelinesTransnationalcalls.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 strongly 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 6-month national progress reports 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](#) for the same deadline as the consortium application is submitted. Please select the QuantERA Call 2017 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 300.000€ 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 1 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

Administrative and technical issues:	Scientific issues:	Representative:
Watse Castelein	Dr. Federico J. Mompeán	Severino Falcón
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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 Técnica y de Innovación 2013-2016](#).

The instrument for funding the Spanish groups will be the Spanish Call on International Joint Programming Actions (*Acciones de Programación Conjunta Internacional*), which will be launched in 2017 (APCIN 2017) or the equivalent. Only as a reference, the beneficiaries are advised to read the call APCIN 2016.

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

Purpose of funding

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

Funding commitment

Maximum funding for the QuantERA call 2016: 500.000 €

Eligible criteria

Eligible legal entities for MINECO funding:

Non-profit research organizations according to the APCIN call

Although enterprises won't be funded through the APCIN Call, the Spanish industrial sector is much welcome to participate in the transnational consortia using their own funds.

Final rules on eligibility will be described at the APCIN2017 call, to be published [here](#).

Additional eligibility criteriaMandatory:

Spanish Principal investigators must be eligible according to the APCIN 2017 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.

Not allowed:

- Principal Investigators are not allowed to apply for funding in more than one proposal in the APCIN 2017 call or its equivalent. This must be taken into account when participating in different ERA-Nets or other international initiatives.
- Principal Investigators have to remain unchanged between the pre-proposal stage, the full proposal stage, and the National APCIN 2017 call or its equivalent.
- Important: Principal Investigators who obtained funding in the APCIN 2016 call are not allowed to apply neither in APCIN 2017 or its equivalent nor in this transnational Quant-ERA call.

Eligible costs

- Personnel costs for temporary contracts (fellowships 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 APCIN 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 MINECO should not exceed 35.000 € per year. If two or more legal entities participate in the same proposal the MINECO part should not exceed 46.000 € per year.
- For experimental groups, the above limits are increased: Up to 50.000 € per year for one Spanish partner. Up to 65.000 € per year 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 MINECO a maximum of 8.000 € 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.

Spanish PIs have to remain unchanged between the pre-proposal stage, the full proposal stage, and the National APCIN call.

Mandatory acknowledgement

Any publication or dissemination activity resulting from the granted projects must acknowledge MINECO funding even after the end of the project: "Project (reference nº XX) funded by MINECO through APCIN 2017".

Contact point

Jukka Tanskanen

Science adviser

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Funding criteria and regulations**General**

Finnish applicants are recommended to contact the Academy of Finland before proposal submission for the purpose of checking national funding terms and conditions (e.g. national eligibility criteria).

Applicant

Applicant for Academy of Finland research funding (i.e. the PI of a research project) must have the qualifications of a professor or docent. A PI requesting funding from the Academy of Finland (coordinator or partner) may not participate in more than two proposals.

Funding

The Research Council for Natural Sciences and Engineering plans to grant a maximum of 450,000 euros per project (150,000 euros per year). In general, the conditions and restrictions on Academy Projects apply to the funding. The Academy applies the full cost model in its funding, and the Academy's funding contribution for a project can come to no more than 70% of the total project costs. No industrial co-funding is required. Funding can be granted to research teams for purposes of hiring scientific staff, for the acquisition of equipment and supplies, and for other expenses arising for instance from researcher mobility and networking activities. The PI's salary costs must not be significant in relation to the project's total costs. For example, a three-year research project must not include more than 4,5 months of the PI's effective working hours. This is equivalent to about 1,5 months a year.

Finnish partners of projects that have been successful at the second call stage will be invited to submit national application forms. The Finnish partners have to agree in writing with the other project partners on the rights of ownership and use of the research results of the project as soon as possible after the funding decision has been made. Project partners have to clarify the rights and obligations of inventors with the other members of their research team as well as with their research partners and funding bodies. More information on the Academy's general conditions and guidelines for funding:

<http://www.aka.fi/en/funding/how-to-use-the-funding/general-conditions-and-guidelines-for-funding>

Guidelines for research project funding granted by the *The Research Council for Natural Sciences and Engineering*:

<http://www.aka.fi/fi/tiedepoliittinen-toiminta/toimikunnat-rahoittajina/luonnontieteen-ja-tekniikan-tutkimuksen-toimikunta>

Contact point

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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 January 2017 at <http://www.anr.fr/AAPProjetsOuverts>

Contact point

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European Union Division / Directorate for S&T
International Cooperation

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Funding criteria and regulations***National Research and Innovation Strategy for Smart Specialization 2014-2020***

<https://www.google.gr/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&cad=rja&uact=8&ved=0ahUKEwjXsPPO3OvPAhVC5xoKHRsnA8AQFggzMAM&url=http%3A%2F%2Fwww.gsrt.gr%2FNews%2FFiles%2FNew1034%2FExecutive%2520Summary-2015-09-17-v04.pdf&usg=AFQjCNEU2Y9dkTUwHwzvrGursUgdUGxO5A&bvm=bv.136499718,d.d2s>

Type/nature of the participants

All legal entities (public and private sector)

Legal/administrative/financial conditions**Aid for research and development projects**

1. The aided part of the research and development project shall completely fall within one or more of the following categories:

- a) fundamental research;
- b) industrial research;
- c) experimental development;

2. The eligible costs of research and development projects shall be allocated to a specific category of research and development and shall be the following:

- a) personnel costs: researchers, technicians and other supporting staff to the extent employed on the project.
- b) 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.
- c) 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.
- d) 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.
- e) additional overheads and other operating expenses, including costs of materials, supplies and similar products, incurred directly as a result of the project.

3. The aid intensity for each beneficiary

- a) 100 % of the eligible costs for fundamental research.
- b) 50 % of the eligible costs for industrial research.
- c) 25 % of the eligible costs for experimental development.

4. The aid intensities for industrial research and experimental development may be increased up to a maximum aid intensity of 80 % of the eligible costs as follows:

- a) by 10 percentage points for medium-sized enterprises and by 20 percentage points for small enterprises;
- b) by 15 percentage points if one of the following conditions is fulfilled:

(i) the project involves effective collaboration:

— between undertakings among which at least one is an SME, or is carried out in at least two Member States, or in a Member State and in a Contracting Party of the EEA Agreement, and no single undertaking bears more than 70 % of the eligible costs, or — between an undertaking and one or more research and knowledge-dissemination organisations, where the latter bear at least 10 % of the eligible costs and have the right to publish their own research results;

(ii) the results of the project are widely disseminated through conferences, publication, open access repositories, or free or open source software.

Innovation aid for SMEs

1. The eligible costs shall be the following:
 - (a) costs for obtaining, validating and defending patents and other intangible assets;
 - (b) costs for secondment of highly qualified personnel from a research and knowledge-dissemination organization or a large enterprise, working on research, development and innovation activities in a newly created function within the beneficiary and not replacing other personnel;
 - (c) costs for innovation advisory and support services;
2. The aid intensity shall not exceed 50 % of the eligible costs.
3. In the particular case of aid for innovation advisory and support services the aid intensity can be increased up to 100 % of the eligible costs provided that the total amount of aid for innovation advisory and support services does not exceed EUR 100.000 per undertaking within any three-year period.

Aid for process and organisational innovation

1. Aid to large undertakings shall only be compatible if they effectively collaborate with SMEs in the aided activity and the collaborating SMEs incur at least 30 % of the total eligible costs.
2. The eligible costs shall be the following:
 - a. personnel costs;
 - b. costs of instruments, 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.
 - c. costs of contractual research, knowledge and patents bought or licensed from outside sources at arm's length conditions;
 - d. additional overheads and other operating costs, including costs of materials, supplies and similar products, incurred directly as a result of the project.
3. The aid intensity shall not exceed 15 % of the eligible costs for large undertakings and 50 % of the eligible costs for SMEs.

Further information regarding the categorization of aid intensity is available at the national guide published at GSRT website.

Eligible costs as Indirect costs

Up to 5% of the total budget.

Upper funding limits for the eligible costs

The Upper limit of the total public funding will be 100.000 € per project. The maximum state aid intensity will be calculated according to the provisions of the European state aid rules and regulations in force (type of research activity, size of the participating enterprise, collaborative research).

Project duration

Up to 36 months.

National phase

A national call will be announced for the submission of the approved proposals at national level after the selection of the projects at European level.

Contact point

Edina Nemeth

National Contact Point for Horizon 2020 ICT & FET

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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 NEMZ_16 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

Suzanne Foley

SFI Programme Manager

h2020@sfi.ie

Funding criteria and regulations

Funding criteria and regulations can be found at <http://www.sfi.ie/international/european-research-area-era/h2020/quantera.html>

Contact point

Ms. Hadas Daar

ICT department, ISERD

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

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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 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 program rules - up to 90% 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 January 2017 at <http://www.cnr.it>

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

Contact point

Giorgio Carpino

Aldo Covello

+39 06 5849 7147 – giorgio.carpino@miur.it+39 06 5849 6465 – aldo.covello@miur.it**Funding criteria and regulations*****Name of & link to the funding programme(s) and other relevant information***

FIRST - Fondo per gli Investimenti nella Ricerca Scientifica e Tecnologica

Min. project duration: 24 months

Max. project duration: 36 months

Maximum funding per project

A maximum grant of 150.000 Euro can be awarded to each project proposal, even if it includes more than one Italian participant.

Institutional eligibility criteria

A maximum of two Italian participants per project proposal, requesting funding to MIUR, is admitted.

A Principal Investigator can participate (either as coordinator or as partner) in only one project proposal, requesting funding to MIUR.

All costs incurred during the lifetime of the project under the following categories are eligible: Personnel, Equipment, Subcontracting, Consumables, and Overheads.

Activity typology \ Applicant typology		Funding Rates			
		Enterprises and private research bodies (which meets the requirements of research organization under EU Reg. no. 651/2014 of the Commission - June 17, 2014)			Universities, public research institutions, research organizations (public and private) in accordance with Reg. EU n. 651/2014 of the Commission - June 17, 2014)
		Small Enterprises	Medium Enterprises	Big Enterprises	
Basic Research	grant	40%	30%	20%	70%
Industrial Research	grant	40%	30%	20%	50%
Experimental Research	grant	30%	20%	10%	25%

On request of applicants a pre-payment may be done, equal to:

- 80% of the total contribution for public entities;
- 50% of the total contribution for private entities.

The remaining part of contribute will be paid in instalments after each financial and progress reporting period.

1) *Type/nature of participants*

The following entities are eligible for funding, providing that they have stable organization in Italy:

- Enterprises and private research bodies (which meets the requirements of research organization under EU Reg. no. 651/2014 of the Commission - June 17, 2014)
 - Universities, public research institutions, research organizations (public and private) in accordance with Reg. EU n. 651/2014 of the Commission - June 17, 2014).
- 2) *Legal/administrative/financial conditions*

The participant must not be defaulting with regard to other funding received by MIUR.

The participant must not have requested/got any other funding for the same research activities.

The participant must respect the Italian law against "mafia".

3) *Financial conditions*

For any private entity, the following financial criteria, calculated using the data reported in the last approved balance sheet, must be fulfilled:

I. $CN > (CP - I)/2$

Where:

- CN = net assets (Capitale netto)
- CP = sum of the costs of all the projects for which public funding has been requested by the participant during the year
- I = sum of the contributions received, approved or requested for the same projects

II. $OF/F < 8\%$

Where:

- OF = financial charges (Oneri finanziari)
- F = turnover (Fatturato)

In addition to pre-proposals and full proposals that shall be submitted at European level, Italian participants must provide MIUR with a set of additional national documents published on MIUR website (<http://www.ricercainternazionale.miur.it/era/eranet-cofund-h2020/quantera.aspx>). These national additional documents must be sent to MIUR by the same deadline of the pre-proposal phase submission established in the international joint call. Any participant who does not send its national documents by the deadline of the QuantERA call, will be considered not eligible for funding.

MIUR will require to all Italian participants admitted to the second phase some additional documents describing in more detail the participant and its research activities within the project (capitolato tecnico).

The admission for funding is subject to the adoption of the necessary accounting and administrative measures for the allocation of the resources.

Funded participants will be requested to submit financial and scientific reports to MIUR.

It is recommended to contact the National Contact Persons already in early stage of project preparation.

Eligible participants must have a stable organization in Italy.

Institutional thematic priorities

All activities classifiable as Basic research, Industrial research and Experimental development are eligible for funding.

Furthermore, Basic research and Industrial research activities must be predominant with respect to Experimental development activities.

Contact points

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DepartmentScience, Research and Innovation Policy Support
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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

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

1.0 M€.

Anticipated number of fundable research groups

4-5.

Eligibility of project duration

Maximum of 3 years.

Maximum funding per awarded project

250 k€

Eligibility of a partner as a beneficiary institution

Professors and permanent scientific staff at the Dutch universities, or NWO institutes or at other research organisations that - at least in part - are funded by the Ministry of Education, Culture and Science may apply for funding and participate in a QuantERA consortium as main applicant or as co-applicant.

Individuals who – in the framework of a tenure-track position, a Vidi grant or a Vici grant – do not yet have a permanent appointment can also be (co-)applicant. However, their proposal must be accompanied by a declaration from the dean or director of the institute which states that they have a prospect of a permanent position after the temporary appointment period. This declaration must be sent separately to the national contact person.

Eligibility of costs, types and their caps

One (or more) PhD students and/or Postdoctoral researcher(s) (up to a maximum of 3 years), non-scientific personnel (up to a maximum of 3 years), material costs, traveling costs, network and consortium costs.

For all eligible applicants the VSNU standard tariffs for personnel costs apply (see <http://www.nwo.nl/en/funding/funding+process+explained/salary+tables>)

Because projects in the ERA-NET run no longer than 36 months, NWO will only fund at maximum 36 months of a PhD student or other position. The applicants need to indicate and guarantee a separate funding source for the last part of the position (if applicable). They also need to indicate in their planning how the 4-year term of a PhD student is incorporated in the planning of the project. Any project results that are to be produced by the 4-year position need to be planned and delivered in the project period, including all relevant reports to the ERA-NET.

Other

Applicants must consult the NWO Guide for Applicants' available at the link above for specific eligibility criteria and other details.

Projects that are selected for funding are required to complete a financial form, and submit this to NWO.

Submission of financial and scientific reports at the national level by funded partners

Yes. Submission of financial & scientific reports at national level is required in accordance with the rules of NWO.

Information

www.fom.nl/quant-era-en

Contact point

Pål Sigurd Malm

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NCP-FET

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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

Michał Chomczyk

Section of Management of Applied Research Programmes INFOTECH

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Funding criteria and regulations

The Agency supports the following types of research/development:

- Industrial / 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

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Sylwia Kostka

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marlena.wosiak@ncn.gov.plsylwia.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 NCN Council's Resolution on funding granted within calls for proposals for international research projects: https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2016/uchwala114_2016-zal1.pdf (p. 6-13).

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

- Personnel costs (please see: 2.1., p. 7-10, in the abovementioned document);
- 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 = 4.3065 PLN

Please note:

- On the full proposal stage 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 consortium. Each Host Institution comprising the consortium has a separate budget, but the limit on the applies to the consortium as a whole.
- Applicants are obliged to adhere to the rules included in the Annex to NCN Council's Resolution on funding granted within calls for proposals for international research projects: https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2016/uchwala114_2016-zal1.pdf.

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:

<http://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 <http://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 <http://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:

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

Contact point

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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>

Contact point

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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. Financial rules:

www.sav.sk/index.php?lang=sk&charset=&doc=services-news&source_no=25&news_no=5570)

National phase

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

Funding amount and rates

The Slovak commitment to this call is of 240 k€. The funding of each proposal with Slovak applicants is limited to 120 k€ per project for the period to max. 3 years.

Contact point

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Senior Advisor

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Funding criteria and regulations

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, Uradni list RS, št. 22/06 – uradno prečiščeno besedilo, 61/06-ZDru-1, 112/07, 9/11 in 57/12-ZPOP-1A*). 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 criteria and standards for allocating resources for the implementation of the research activity, financed from the budget of the Republic of Slovenia](#) (*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 in 103/15, from now on: 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, Uradni list RS št. 41/09 in 72/11*). 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 (according to article 16,18, 22 and 23 of the Decree), material (including travel, consumables and services) and equipment (amortization) 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).

Period of eligibility of public expenditures: As of budgetary year 2018 until the end of the budgetary year 2021.

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 24 or 36 months, with a prescribed additional 30-day period for the payment of invoices related to the project costs. 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 with a possibility of additional EC funding depending on EC contribution (in the form of top up funding)

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 24 or 36 months).

Funding:

100 % for research organization (such as universities, public and private research institutes) who's financed activity is non-economic in accordance with the provisions of Community Framework for

State Aid for Research and Development and Innovation (OJ EU C 198, 27. 6. 2014). Wide dissemination of 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 with a statement regarding the agreed starting date of the transnational project signed by the transnational project coordinator will be a prerequisite for signing the contract on national level.

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 2017.

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. Eligible organisations are:

<http://www.vr.se/inenglish/researchfunding/applyforgrants/generalconditionsforgrantapplications/approvedadministratingorganisations.4.4b1cd22413cb479b80537a9.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, if funded, the full proposals selected for funding must be resubmitted at national level.

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

Mete Karaca

H2020 ICT and FET National Contact Point

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Funding criteria and regulations

Information will be available before the call deadline of the TÜBİTAK EU website <http://www.h2020.org.tr>

Projects with industry partners can be funded via 1001 Programme. Funding criteria and regulations can be found at <https://www.tubitak.gov.tr/tr/destekler/akademik/ulusal-destek-programlari/icerik-1001-bilimsel-ve-teknolojik-arastirma-projelerini-destekleme-pr>

Contact point

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Funding criteria and regulations**General**

Up to £2M is available to support 3-8 projects involving researchers based in UK Higher Education Institutions or eligible research organisations.

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.

How to Apply

In addition to the procedure set-out above, Principle Investigators of UK partners must register their intention to submit by completing the intention to submit form at:

<http://www.smartsurvey.co.uk/s/QuantERA/> before the pre-proposal submission deadline.

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