

Quantum Technology information day

For the Skills and Capital calls



UK NATIONAL
QUANTUM
TECHNOLOGIES
PROGRAMME

QUANTUM TECHNOLOGY CALLS PROCESS OVERVIEW

Introduction:

This presentation will cover:

- Funding available
- Peer review process
- Basics of submission
- Call specifics – including expectations; documentation; scope; assessment criteria and additional grant conditions
- Summary of key dates

Summary of funding available

Training and Skills

Hubs:

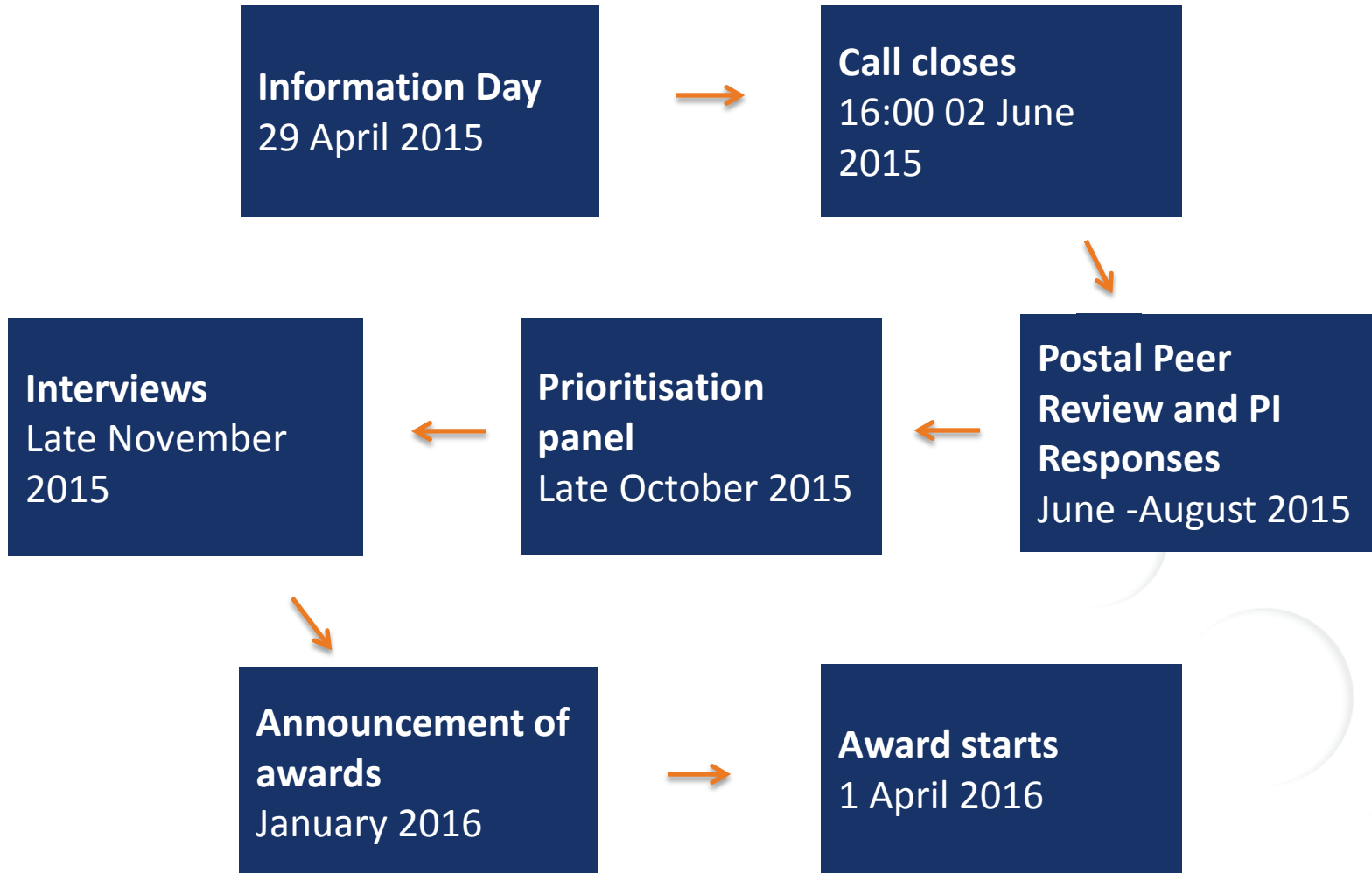
- Up to £15 Million
- Three to Five hubs
- Maximum 60 Months duration
- No capital funding available

Strategic Capital

Investment:

- Up to £25 Million
- Three to six grants
- Maximum 36 months
- Capital funding only

Strategic Peer Review Process



Basics of Submission

- Deadline for submission through Je-S 2 June 2015 @ 16:00
- An institution may lead only one bid per call
- There is a fixed start date: 01 April 2016
- The call documents clearly state how to select the correct proposal form in Je-S
- Allow sufficient time - clicking 'submit document' on your proposal form in Je-S sends it to your host organisations administration not EPSRC.

Capital Call

This section will cover:

- Specifics of funding available
- Expectations
- Scope
- Assessment criteria
- Required documentation
- Additional grant conditions

Capital call: Specifics of funding available

- Fixed spend profile:
16/17 - 50%; 17/18 - 33%; 18/19 - 17%
- EPSRC will award equipment costs at 100%
- An application may be fully or partially awarded. However, unless advised otherwise by the panel, proposals will be funded in their entirety or not at all.
- Laboratory refurbishment costs are only permitted for specialist infrastructure essential to the operation of the equipment requested.

Capital call: Expectations

- To augment and expand the UK's quantum technology capability
- Focus on accelerating translation to application
- Maximise access of equipment and facilities to the academic and industrial community
- Engage with the overarching national programme and get involved in activities of the national quantum technology network

Capital call: Scope

- This call is open for proposals that augment existing UK capabilities in (one or more of) four areas of strategic focus:

1. Building technical capability
2. Manufacturing tools
3. System / subsystem design
4. Acceleration of innovation

Capital call: Assessment criteria

- Vision and augmentation to the UK national landscape
- Quality of applicant team and research and innovation environment
- Management and sustainability
- National Importance
- User engagement
- Pathways to Impact

Capital call: Documentation required (1)

• Je-S application form

- The title of the grant should be prefixed by “Quantum technology capital:”
- The value of all equipment requested should be added together and entered as one entry on the Je-S form
- Where a consortium is bidding, only one Je-S form is permitted for the whole consortium
- The start date is 1 April 2016
- The duration must not exceed 36 months

Capital call: Documentation required (2)

- Case for support (max 8 pages)
 - Track record (up to 2 pages)
 - The remaining pages must provide details of the case for each of the areas of strategic focus that you are applying for. This case must cover the information requested in the bulleted paragraphs on page 7 of the call document

Capital call: Documentation required (3)

• Justification of resources (JoR)

- One JoR is required for each area of strategic focus being applied for
- Each JoR must not exceed 2 pages and must be attached as separate JoR's in Je-S using the justification of resources attachment type
- Each JoR must list all the items requested relevant to the area
- The list must be in the PI's order of prioritisation for funding
- The JoR must also include a descriptive overview and why these particular items have been requested
- When an item requested will be used in more than one area of strategic focus, this item should be included in all relevant prioritised lists and the link clearly stated on both JoR's

Capital call: Documentation required (4)

- Pathways to impact (max 2 pages)
 - Describe the kinds of impact envisaged, how the requested equipment will be managed to engage users and beneficiaries and increase the likelihood of impacts
- Workplan (max 1 page)
 - Include:
 - Timescales of procurement, delivery, installation and getting equipment fully operational
 - Expected lifetime of equipment
 - Usage by different groups

Capital call: Documentation required (5)

- Host organisation statement(s)
 - A Host statement is required for each institution involved in the proposal
 - Must be signed by the Pro VC research or equivalent
- Project partner statements of support
 - Only permitted from user organisations contributing directly or in kind
 - Project partners cannot benefit financially
 - If suppliers are offering a contribution (more than academic discount) to equipment costs or support package, letters of support can be attached using “additional document” attachment type.

Capital call: Documentation required (6)

- Letters of support from key users of the equipment
 - Must show significant support for the proposal and a clear intention to use the equipment
 - Be selective. Don't provide letters from everyone, provide a cross section of key users.
 - Only one letter is permitted per organisation
 - The host can submit more than one provided each letter represents very different interests

Capital call: Documentation required (7)

• Table of equipment request

- Add as “additional document” attachment type
- Each item of equipment must have own entry on table and must be numbered for ease of reference
- Each entry must provide information normally on Je-S form
- For each entry must state financial year the actual payment is expected to occur
- Only items over £10K can be requested
- The total of the items requested must be included at bottom of table. This figure must match the single entry on the Je-S form or EPSRC will only fund the lower figure and the Institution will have to cover the difference.

Capital call: Documentation required (8)

• Table of equipment (example)

Item number and description	Country of manufacture	Delivery date and financial year payment expected	Basic price £	Import duty £	VAT £	Total £	Amount sought £
(1) Microscope	United Kingdom	10/8/16 FY 16/17	18,522.46	0.00	3704.49	22226.95	22226.95
(2) Low noise pump laser	Netherlands	27/5/17 FY 6/17 50% and 17/18 50%	27975.00	0.00	5595.00	33570.00	33570.00
(3) Mask Aligner	Germany	3/1/18 FY 17/18	345600.00	86400	0.00	432000.00	432000.00
						Total for Je-S entry	487796.95

Capital call: Documentation required (9)

• Summary of quotes

- Add as “additional document” attachment type
- The summary of quotes must list each item in the same order as the table of equipment and must provide details of the company name and the 3 quotes obtained
- 3 quotes are required for all items costing £25,000 or more
- If a sole supplier this must be clearly stated

Capital call: Documentation required (10)

- Summary of quotes (example)

Item number and description	Company name	Quote £	
(1) Microscope	Company name 1	19881.84	
	Company name 2	22226.95	
	Company name 3	27003.78	
(2) Low noise pump laser	Company name 1	33570.00	There are only 2 suppliers
	Company name 2	371952.00	
(3) Mask Aligner	Company name 1	432000.00	This is a sole supplier

Capital call: Documentation required (11)

- All the above documents must be submitted through Je-S. In addition one pdf containing all quotes for items costing over the OJEU limit must be emailed to quantumtechnologies@epsrc.ac.uk by the call deadline of 16:00 on 2 June 2015.
- The summary of quotes is sufficient for items costing between £25,000 and the OJEU limit – these quotes do not need to be included in the emailed PDF.

Capital call: Additional grant conditions

- Fixed start date: 1 April 2016
- Fixed spend profiles
- Mandatory reporting to EPSRC
- Expectations on engagement with the overarching National Quantum Technology Programme
- Publicity and branding in relation to the National Quantum Technology Programme and EPSRC

Skills call

- Introduction
- Funding available
- Expectations
- Scope
- Assessment criteria
- Required documentation
- Additional grant conditions

Skills call

• Introduction

- What is a “Quantum Engineer” ?
 - *Quantum engineers are multi-disciplinary individuals who combine practical engineering skills and specialist technical knowledge in fields such as electronic engineering, systems engineering, computer science, mathematics, and physical sciences with broader communication skills, commercial awareness and engineering skills*

Skills call

• Funding available to support

- Resources devoted to a dedicated **Career accelerator fund**
- **High-level skills training** in Quantum Engineering
 - Doctoral Training costs
 - Course development
 - Travel Costs
 - Etc.....
- **Operational Funding**
 - Cohort Development
 - Staff costs
 - Responsible Research and Innovation and Diversity
- Development and delivery of **specific initiatives** to support co-working and mobility and career development

Skills call

•• Expectations

- Work within the landscape of existing investments to **strengthen** research, innovation and skills
- **Engage** with stakeholders to grow capacity in high level engineering skills
- **Support** the development of Quantum Engineers
- **Integrate** training within the wider Quantum Technologies Community
- Initiatives to **develop** Quantum Engineering career opportunities

Skills call

•• Scope

- Technological Scope
- Contribution to the National Landscape

Skills call

• Assessment Criteria

- **Strategic** vision and **contribution** to the UK National Quantum Technologies Programme
- **Quality** of the applicant **team** and **research and innovation** environment
- **Quality** of the **training** environment
- Outcomes and the potential **impact**
- **Partnership** and **engagement**
- **Management** and **delivery**
- Institutional **commitment** and **value for money**

Skills call

- Required Documentation
 - Submit through Je-S
 - Je-S application form
 - Case for support
 - Track record of Applicant team and Overview of Research and Innovation Environment
 - Justification of Resources
 - Pathways to Impact
 - Institutional Statement of support
 - Project Partner Statement of Support

Skills call

• Additional Grant Conditions

- Mid term review after 2 years of operation
- Terms of reference and membership of any steering or advisory bodies of the Hubs must be approved by EPSRC
- Mandatory reporting to EPSRC and EPSRC involvement
- Abidance of publicity/branding guidelines including terminology
- Signed collaboration agreement in any institutions involved in the new Hubs to allow provision for flexible use of funding

Skills call



Key dates

Activity	Date
Call closes	16:00 on 02 June 2015
Prioritisation panel	Late October 2015
Interviews	Late November 2015
Announcement of awards	January 2016
Award starts (fixed start date)	01 April 2016

Quantum Technologies Theme

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