

Part of UK Research and Innovation

## Quick Reference

**Please note that you must read the full Call document for guidance before submitting your proposal**

### Building Collaboration at the Physics of Life Interface

**Call type: Invitation for proposals**

**Closing date: Full proposals must be received by 12 February 2019**

**Funding available:** The UKRI Strategic Priority Fund is awarding up to £15 million, to include £13.2 million of resource funding and £1.8 million of capital, for between 5 and 8 collaborative projects of fixed 3 years' duration to enable high-quality, interdisciplinary Physics of Life research, across EPSRC plus BBSRC and/or MRC remit.

**How to apply:** Applicants must provide their intention to submit via SmartSurvey followed by a full proposal as described in the call document.

**Assessment process:** Full proposals will be reviewed by an interdisciplinary expert peer review panel. There will be no postal peer review or right to reply due to time constraints, but feedback will be provided after the panel meeting.

#### Key dates:

Activity	Date
Call opens	10 December 2018
Intention to submit deadline	15 January 2019
Full proposal deadline	12 February 2019
Expert peer review panel	W/C 18 March 2019
Fixed grant start date	1 April 2019

**Additional information:** This is the first of two calls, open to applicants from UK institutions which are eligible to receive funding from UKRI as well as Public Sector Research Establishments. Multi-institution applications are permitted. Fixed expenditure profiles will be agreed before successful grants commence.

#### Contacts:

- Luke Boldock ([luke.boldock@epsrc.ukri.org](mailto:luke.boldock@epsrc.ukri.org) - 01793 444450)
- Kate Bowman ([kate.bowman@epsrc.ukri.org](mailto:kate.bowman@epsrc.ukri.org) - 01793 444369)



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## **Building Collaboration at the Physics of Life Interface**

**Call type:** Invitation for proposals

**Closing date:** Full proposals must be received by 12 February 2019

**Related themes:** Physical Sciences

### **Contents of this call document**

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### **Summary**

This is the first of two calls for proposals from the UKRI Physics of Life Strategic Priority Fund to support internationally leading research that requires collaborative, interdisciplinary working to address key challenges at the interface of physics and the life sciences. This call will fund high-quality proposals that demonstrate deep integration of cutting edge experimental, theoretical and/or computational physics with life sciences research to advance our understanding of living systems in biological or biomedical contexts.

This UKRI call, led by EPSRC with support from BBSRC and MRC, is making available up to £15 million, to include £13.2 million of resource funding and £1.8 million of capital funding. This call is open to staff of UK institutions who are eligible to receive funding from UKRI as well as Public Sector Research Establishments (PSREs). Multi-institution applications are permitted.

Applicants interested in applying to this call must complete the intention to submit form on the call website by **16:00 on 15 January 2019**. This

information will primarily be used to manage potential conflicts when selecting the panel. Applicants will receive an email from UKRI by 16:00 on Friday 18 January 2019 confirming our expectation that they will submit a full proposal. Full proposals must be submitted by 16:00 on 12 February 2019 and will be assessed directly by an interdisciplinary expert peer review panel from across the physics and life sciences communities.

We envisage high demand for funding, therefore we strongly discourage the premature submission of proposals which may benefit from further development in anticipation of the second Physics of Life call, which will be of a similar scale. Submissions to this call will not count towards the EPSRC Repeatedly Unsuccessful Applicants Policy. Further information about the policy can be found at: <https://epsrc.ukri.org/funding/howtoapply/basics/resubpol/rua/>

## Background

This Physics of Life call builds on momentum created by the communities supported by EPSRC, BBSRC and MRC pump-priming for work at this interface via the Physics of Life Network (PoLNet, <http://www.physicsoflife.org.uk/>), and investment in Technology Touching Life (<https://www.ukri.org/research/cross-organisational-themes-and-programmes/technology-touching-life/>). For context, applicants may find it useful to browse the PoLNet website and Roadmap for Understanding the Physics of Life (<http://www.physicsoflife.org.uk/roadmap-for-biological-physics.html>). However, applicants are not required to respond to areas identified by PoLNet and should refer solely to the call text to gauge the suitability of their proposal for this call. Applicants do not need to be a current member of PoLNet or similar managed activity, or hold UKRI funding, to be eligible for this call.

The Physics of Life Strategic Priority Fund programme is a unique opportunity for researchers who are working, or looking to work, in a truly integrated manner at the interface of physics and the life sciences, under a mechanism designed to better facilitate interdisciplinary research in the new UKRI landscape. This call aims to support high-quality, cutting-edge, internationally leading research that requires collaborative, interdisciplinary working, using experimental, theoretical and/or computational physics to unlock our understanding of living systems in biological or biomedical contexts. Research relevant to human, animal, plant or microbial systems is eligible and projects may work within or across length scales, from molecules to complex organisms.

Proposals must demonstrate deep integration of research questions, approaches and outcomes across the team of investigators. The proposed research challenge must be of sufficient ambition that neither physics nor biology alone can address it and requires integration of expertise from two or more disciplines. Proposals submitted to this call must include physics research which is in remit for the EPSRC Biophysics and Soft Matter Physics portfolio, integrated with applications within BBSRC and/or MRC remit. Proposals must integrate these disciplines to yield impact which is greater than the sum of their parts.

The following are excluded from the call:

- Proposals that do not demonstrate both physics and life sciences expertise within the team of applicants

- Proposals that are focussed on physics without application to the life sciences (biological and/or biomedical)
- Proposals from the life sciences that do not integrate physics research within the programme; for example, solely employing standard biophysical techniques or chemical biology approaches
- Proposals which employ well established spectroscopy, microscopy, imaging, scattering and cell manipulation techniques where the methodology is either not being further developed using a physics approach or is not generating further physics knowledge
- Proposals primarily focussed on 'big data' approaches; for example, genomics, machine learning and AI
- Proposals primarily focussed on acquisition of research equipment
- Proposals primarily focussed on the development of new instrumentation. The development of novel approaches and tools is, however, encouraged where this is in support of a compelling life science research question that addresses the scope of the call (see above).

Institutions must take a strategic overview of the proposals submitted by their staff. Institutions must not submit a number of largely overlapping proposals nor request multiple items of the same equipment. This call should be used as an opportunity for the institution to enable cross-departmental collaboration in Physics of Life research by bringing together the most appropriate expertise.

Collaborations with industry, clinicians and other relevant stakeholders should be fully explored where appropriate to the research being undertaken, but are not a general requirement.

## **Funding available**

The UKRI Strategic Priority Fund is awarding up to £15 million, to include £13.2 million of resource funding (funded at 80% FEC) and £1.8 million of capital (funded at 100% FEC). It is anticipated that this funding will support between 5 and 8 collaborative projects of 3 years' duration. Proposals requesting more than £3 million of funding are not permitted in this call. Grants will commence on 1 April 2019 and end on 31 March 2022. Strict expenditure profiles for each grant holder will be agreed before the successful grants commence.

UKRI aims to support innovative and ambitious collaborations. The amount of funding requested by the applicants must be commensurate with the work to be undertaken and their ability to deliver. Applicants are encouraged, but not required, to contribute funding or resources and seek leverage from external sources; however this will not form part of the assessment process.

## **Principal Investigators**

Proposed research challenges must be of sufficient ambition that neither physics nor biology alone can address them. Therefore each proposal must identify two co-Principal Investigators (co-PIs), who will lead jointly and have between them the broad expertise required to deliver their ambitious, interdisciplinary research programme. The Je-S system only allows one Principal Investigator (PI) to be

named, therefore the co-PI roles must be clearly identified within the track record of the Case for Support. The PI named on the Je-S form will, for administrative purposes, be the initial point of contact for liaison with UKRI during the lifetime of the award.

We expect that the leadership of all proposals demonstrate a breadth of high-quality expertise spanning both physics and life sciences. Whilst recognising that some researchers may already have an established track record in the physics of life, this call requires two co-PIs with complementary expertise.

## **Co-Investigators**

Co-Investigators may also be included in proposals. Co-Investigators may include, but are not limited to, researchers working in physics, biology, medicine, mathematics and bioengineering provided that they are essential to the Physics of Life case being proposed.

## **Early career researchers**

The inclusion of early career researchers is encouraged where they will enhance the research programme, providing appropriate arrangements are made for their mentoring and support.

## **Postdoctoral research associates**

To enable flexibility in the size and complexity of proposals applicants must request a minimum of two postdoctoral research associates (PDRAs), but may wish to request many more in the case of shorter-term appointments.

## **Capital funding**

Applicants should only apply for capital funding for equipment if there is a strong case to do so for the proposed research programme. Capital requests may include costs for equipment to provide novel capability and/or upgrades and modifications to existing infrastructure. Equipment that underpins either general physics research without application to the life sciences, or life sciences research that does not involve cutting-edge physics, is excluded from the call. UKRI reserves the right to remove requested equipment from successful grants if it has not been justified or if the overall capital available for the call has been exceeded.

## **Equality, diversity and inclusion**

The long term strength of the UK research base depends on harnessing all available talent and the Research Councils have together developed the ambitious UK Research and Innovation Equality, Diversity and Inclusion Action Plan (<https://www.ukri.org/files/legacy/skills/action-plan-edi-2016/>).

In line with the UK Research and Innovation Diversity Principles, UKRI expects that equality and diversity is embedded at all levels and in all aspects of research practice. We are committed to supporting the research community in the diverse ways a research career can be built with our investments. This includes career breaks, support for people with caring responsibilities, flexible working and alternative working patterns. With this in mind, we welcome applications from academics who job share, have a part-time contract, need flexible working

arrangements or those currently committed to other longer, large existing grants. Please see our Equality and Diversity webpages for further information: <https://epsrc.ukri.org/funding/equalitydiversity/>

## Equipment

UKRI will exceptionally award all capital costs at 100% FEC. 100% of the equipment costs must be entered under the directly incurred costs heading in the proposal form under 'amount sought'.

- The quoted cost of an item must include VAT and delivery charges, and have any academic or other discounts subtracted where applicable. Quotes must match values entered in the Je-S form. Particular care must be taken where currency conversions are required.
- Laboratory refurbishment costs are not eligible unless they can be shown to be directly related to the housing of any equipment requested.
- For more information on equipment funding, please see: <https://epsrc.ukri.org/research/facilities/equipment/>

## Eligibility

For information on the eligibility of organisations and individuals to receive EPSRC funding, see the EPSRC Funding Guide: <https://epsrc.ukri.org/funding/applicationprocess/fundingguide/>

A list of eligible organisations to apply to UKRI is provided at: <https://www.ukri.org/funding/how-to-apply/eligibility/>

In addition, Public Sector Research Establishments with 10 or more researchers with PhDs (or equivalent) are eligible to apply for this call. If PSREs wishing to apply have not previously applied for UKRI funding and are not currently designated IRO status they will be required to complete an eligibility form to ensure they have the required research capacity, systems and controls in place to manage the research and grant funding. PSRE applicants should contact EPSRC at the earliest opportunity to discuss their interests in applying. Please ensure sufficient time to create Je-S accounts for Investigators who do not currently have one.

Please note UKRI staff will check whether applications are from eligible organisations or PSREs at the intention to submit stage. Applicants who are not eligible to receive funding from UKRI will not be permitted to submit a full application.

Applicants do not need to be a current member of PoLNet or similar managed activity, or hold UKRI funding, to be eligible for this call.

## How to apply

Please note, there are two mandatory stages. An intention to submit must be provided via the embedded form on the call page on the EPSRC website by **16:00 on 15 January 2019**, followed by the submission of a full proposal by 16:00 on 12 February 2019.

## Submitting an application

You must prepare and submit your proposal using the Research Councils' Joint electronic Submission (Je-S) System (<https://je-s.rcuk.ac.uk/>).

When adding a new proposal, you should select:

- Council 'EPSRC'
- Document type 'Standard Proposal'
- Scheme 'Standard'
- Under Call/Mode you should select the 'Building Collaboration at the Physics of Life Interface' call

Note that clicking 'submit document' on your proposal form in Je-S initially submits the proposal to your host organisation's administration, not to EPSRC. Please allow sufficient time for your organisation's submission process between submitting your proposal to them and the call closing date. EPSRC must receive your application by **16:00 on 12 February 2019**.

Guidance on the types of support that may be sought and advice on the completion of the research proposal forms are given on the EPSRC website (<https://epsrc.ukri.org/funding/applicationprocess/>) which should be consulted when preparing all proposals.

## Guidance on writing an application

The following documents should be submitted at the full proposal stage:

- Je-S application form
- Case for Support (up to 8 pages)
- Justification of Resources (2 pages)
- Work Plan (1 page)
- Pathways to Impact (2 pages)
- Equipment Business Case (2 pages)
- Equipment Quotes (no page limit)
- Project Partner Letter(s) of Support (no page limit)
- CVs (optional)
- Letter of Support (up to 3 in total)
- Cover Letter (optional, no page limit)

Further details on what should be included in each document are described:

## **Case for Support (up to 8 sides of A4)**

Applicants are requested to provide a Case for Support document up to 8 pages in length, two of which must be used for the applicants' track records.

### **Applicant Track Record:**

Use the applicants' track record to clearly identify the two co-Principal Investigators, articulate their different areas of expertise, how these benefit the research and how applicants will work together in an integrative way to pursue the research questions. Demonstrate that the team involved in the proposal has the appropriate mix of expertise and experience with relevance to the research.

### **Research:**

Detail the proposed research and its context. The proposal must demonstrate that interdisciplinary research of the highest quality will be undertaken. The research programme should be ambitious, creative and innovative, addressing key research challenges in a collaborative and interdisciplinary manner. Applicants must explain how their integrative approach will help transform the research area.

### **National Importance:**

Describe the extent, over the long term, to which the research proposed addresses key UK societal challenges, current or future UK economic success and/or enables future development of key emerging industry(s). Please detail how the proposal fits with and complements other UK research already funded in this or related areas, and relates to EPSRC plus BBSRC and/or MRC strategies and existing investments.

For more information about EPSRC's portfolio and strategies, see:

<https://epsrc.ukri.org/research/ourportfolio/>  
<https://epsrc.ukri.org/research/ourportfolio/researchareas/biophysics/>

For more information about BBSRC's portfolio and strategies, see:

<https://bbsrc.ukri.org/news/planning/strategy/>  
<https://bbsrc.ukri.org/research/>

For more information about MRC's portfolio and strategies, see:

<https://mrc.ukri.org/research/strategy/>

## **Justification of the Resources requested (up to 2 sides of A4)**

This document must present a full justification for all resources, including capital, being requested, and demonstrate value for money and cost-effectiveness.

### **Work Plan (up to 1 side of A4)**

As well as details of the programme of research to be delivered, this must also include the timescales for the procurement and installation required to bring any equipment to full operational status.

### **Pathways to Impact (up to 2 sides of A4)**

This document must detail (with timescales and milestones) the steps that will be taken to ensure that the greatest impact from the research is gained.

## **Equipment Business Case (2 sides of A4)**

Each item of equipment or combined asset which is included in a proposal which costs more than £138,000 must be accompanied by an Equipment Business Case.

## **Equipment Quotes (no page limit)**

EPSRC requires a minimum of three written quotes for any piece of equipment costing £138,000 (including VAT) or above. However, in the event that written quotations are not obtained within the timeframe of the call, EPSRC will accept the temporary use of verbal quotes for equipment between £138,000 and £181,000. Blank placeholder quotes must be uploaded to enable the proposal to pass the Je-S validation checks. Institutions are expected to finalise their quotes by week commencing 18 March 2019 (the date of the panel meeting).

## **Project Partner Letters of Support (no page limit)**

A statement of support must be attached for every project partner identified; only one letter is allowed per organisation. Each letter must be on headed paper, signed, and dated within 6 months of the application date to EPSRC.

Project partners must be making a contribution to the proposal which should have an approximate financial value attached to it. The vendor's academic discount should not be included as a contribution. The host organisation cannot be a project partner.

## **Ethical information**

Applicants must use the Ethical Information section on the Je-S form to demonstrate that they have fully considered any ethical issues concerning the material they intend to use, the nature and choice, current public perceptions and attitudes towards the subject matter or research area. EPSRC will not fund a project if it believes that there are ethical concerns that have been overlooked or not appropriately accounted for. All relevant parts of the Ethical Information section must be completed. If the research will involve human participation or the use of animals covered by the Animals (Scientific Procedures) Act 1986 it is recommended that applicants pay particular attention to the guidance highlighted below. EPSRC reserves the right to reject applications prior to peer review if the Ethical Information sections are not completed correctly.

Other relevant guidance includes EPSRC's policy on animal use in research and the Responsible Innovation Framework:

<https://epsrc.ukri.org/about/standards/animalresearchpolicy/>  
<https://epsrc.ukri.org/research/framework/>

Proposals that involve human participants, their data or tissues must comply with the guidance and necessary approvals. Applicants should also refer to MRC's guidance on ethics and approvals of research:

<https://mrc.ukri.org/funding/guidance-for-applicants/5-ethics-and-approvals/>

Further guidance on completing the Je-S form can be found at:

<https://je-s.rcuk.ac.uk/Handbook/pages/GuidanceonCompletingaStandardG/EthicalInformation.htm>

Please note that on submission to EPSRC all non-PDF documents uploaded onto Je-S are converted to PDF. The use of non-standard fonts may result in errors or font conversion, which could affect the overall length of the document.

In addition, where non-standard fonts are present, and even though the converted PDF document may look unaffected in the Je-S System, when it is imported into the Research Councils Grants System some information may be removed. We therefore recommend that where a document contains any non-standard fonts (scientific notation, diagrams etc.), the document is converted to PDF prior to attaching it to the proposal.

For advice on writing proposals see:

<https://epsrc.ukri.org/funding/howtoapply/preparing/>

## **Assessment**

### **Assessment process**

Please note, there are two mandatory application stages in this call. An intention to submit must be completed via the online form on the call page on the EPSRC website by 16:00 on 15 January 2019 followed by the submission of a full proposal by 16:00 on 12 February 2019. At the mandatory intention to submit stage UKRI primarily requires the names of institutions or establishments and the two co-PIs and any Co-Is involved in the bid to manage potential conflicts when selecting the panel. In addition, brief statements justifying the proposed team and research topic will be used to advise applicants if the proposal is in remit as it is written. Applicants will receive an email from UKRI by 16:00 on Friday 18 January 2019 with this information. Applicants found to be ineligible for UKRI funding will not be permitted to submit a full proposal.

Applicants will not be prevented from submitting a full proposal if the information contained within their intention to submit is deemed to be out of remit. However, if they do wish to proceed to full proposal, they should take care to ensure they respond to UKRI's concerns as UKRI reserves the right to sift applications which are not in remit at the full proposal stage. Please note, UKRI may call upon experts in the Physics of Life community who are not conflicted with the call to determine whether what is outlined in the intention to submit form is in remit before providing feedback to applicants. Full proposals submitted without an intention to submit will not be considered. Full proposals will be office rejected if applicants:

- Request more than £3 million funding from UKRI  
and/or
- Request fewer than 2 PDRAs  
and/or
- Do not nominate 2 joint co-PIs

Due to time constraints imposed on the delivery of this call, there will be no postal peer review or right to reply stage for applicants. As this call will operate a single stage peer review process, applicants will not have the opportunity to respond prior to, or during, the panel meeting. Applications to this call will be

assessed by a specially convened interdisciplinary expert peer review panel, with members from across the physics and life sciences communities in EPSRC, BBSRC and MRC remits. These panel members will be familiar with carrying out interdisciplinary research.

Recommendations to fund will be made by the panel, who will create a rank ordered list of proposals against the assessment criteria detailed within this call document. The final rank ordered list will be available on EPSRC Grants on the Web when applicants are informed. Written feedback will be provided by the panel.

In the event of this call being substantially oversubscribed as to be unmanageable, EPSRC reserve the right to modify the assessment process.

## **Assessment criteria**

Proposals will be assessed against the following criteria:

- Research quality (primary criterion) – Demonstrate the quality, importance, novelty and timeliness of the proposal in terms of the scientific research and proposed equipment, and the relevance of the applicants' track records to this research. Describe to what extent the proposal will enable high-quality scientific outputs, or lead to results that will enable further high-quality scientific research.
- National importance (secondary major criterion) – Demonstrate the long term effects of the proposed research in contributing to the health of Physics of Life research, current or future UK economic success, future development of key emerging industries, or addressing key UK societal challenges. Explain how the proposal will meet national strategic needs by establishing underpinning, unique research activities. Explain how this investment would fit with, and complement, other research in the UK portfolio and EPSRC plus BBSRC and/or MRC's portfolio and strategy.
- Impact (secondary criterion) – Demonstrate awareness of the potential broader societal and economic impacts of the proposed work with regard to the Physics of Life landscape, including if there is scope for underpinning future industrial partnerships. Provide a clear pathway on how to achieve the described impacts.
- Resources and management (secondary criterion) – The level of requested resource must be appropriate and well justified. The proposal must contain a clear work plan that justifies the requested time, with sufficient staff time allocated. The proposal must be adequately managed and include the appropriate management of potential risks.
- Applicant (secondary criterion) – Demonstrate the applicants' ability to deliver the proposed project, making reference to:
  - Appropriateness of the track record of the applicants
  - The balance, interdisciplinarity and complementarity of the applicants and justification of the two co-PIs and wider team
- Fit to scope of the call (secondary criterion) – Demonstrate how the proposed research will improve understanding of life systems, combining

perspectives and expertise from physics and the life sciences (biological and biomedical).

## **Additional grant conditions**

Grants will be subject to the standard UK Research and Innovation grant conditions, however the following additional grant conditions will be added to this call:

- Expenditure against grants must be claimed from the compulsory start date of 1 April 2019, no slippage of the grant start date will be permitted. The duration of the grant will be 36 months with a fixed end date of 31 March 2022.
- Grant extensions may only be requested in exceptional circumstances (for example, maternity/paternity leave). The grant holder is responsible for minimising any extensions and risks must be managed accordingly. Delays must be reported to the UKRI contact.
- UKRI will nominate a dedicated contact or contacts who must be invited to advisory and other appropriate meetings, such as governance boards, for the duration of the grant. The UKRI contact(s) must have access to all documentation of Governance and Reporting bodies, in so far as it relates to the administration and application of the grant. If the documentation is subject to commercial confidentiality the UKRI contact(s) will be required to sign non-disclosure documents.
- Quarterly financial reporting will be required on to-date expenditure and forecast grant expenditure. It is the responsibility of the research organisation or establishment to ensure the research programme remains on the expected expenditure profile. Research offices must inform UKRI of material slippage or cost savings as soon as possible. UKRI reserves the right to suspend or reprofile a grant if spend does not closely match allocation.
- Additional financial or non-financial information may occasionally be requested outside of the standard annual and quarterly reporting cycle. The grant holder agrees to comply with these requests in a timely manner.
- A final evaluation report will be requested by UKRI. The reporting requirements will be provided in due course.

UKRI reserves the right to add additional grant conditions at the point that the grant is awarded.

## **Moving forward**

We envisage high demand for funding, therefore we strongly discourage the premature submission of proposals which may benefit from further development in anticipation of the second Physics of Life call, which will be of a similar scale.

## Key dates

Activity	Date*
Call opens	10 December 2018
Intention to submit deadline	15 January 2019
Full proposal deadline	12 February 2019
Expert peer review panel	W/C 18 March 2019
Fixed grant start date	1 April 2019

\*UKRI aims to adhere to the key dates as published, however there may be exceptions where the prioritisation meeting may have to change due to panel member availability.

## Contacts

University-based applicants are reminded to contact their Research Office in the first instance (for example, for help and advice on writing their proposal) and must allow enough time before the closing date for their organisation's submission process. Applicants from PSRE's must contact us to determine whether they are eligible for the call at their earliest convenience.

For other queries, including advice on remit, please contact:

- Luke Boldock ([luke.boldock@epsrc.ukri.org](mailto:luke.boldock@epsrc.ukri.org) 01793 444450)
- Kate Bowman ([kate.bowman@epsrc.ukri.org](mailto:kate.bowman@epsrc.ukri.org) 01793 444369)
- Peter Burlinson ([peter.burlinson@bbsrc.ukri.org](mailto:peter.burlinson@bbsrc.ukri.org) 01793 413393)
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- Anne McGavigan ([anne.mcgavigan@mrc.ukri.org](mailto:anne.mcgavigan@mrc.ukri.org) 020 7395 2261)

For any questions relating to using Je-S, please contact the helpdesk:

- [JeSHelp@rcuk.ac.uk](mailto:JeSHelp@rcuk.ac.uk) (01793 444164)

## Change log

Name	Date	Version	Change
Luke Boldock & Kate Bowman	27/11/2018	1	N/A

<b>Name</b>	<b>Date</b>	<b>Version</b>	<b>Change</b>
Luke Boldock & Kate Bowman	05/12/2018	2	Incorporating input from Peer Review, UKRI PoL External Advisory Committee and UKRI grants.
Luke Boldock & Kate Bowman	06/12/2018	3	Incorporating input from Peer Review, BBSRC and MRC.
Luke Boldock & Kate Bowman	07/12/2018	4	Incorporating further input from UKRI PoL External Advisory Committee and EPSRC's Physical Sciences theme.
Kate Bowman	20/12/2018	5	Update to the repeatedly unsuccessful applicants policy (page 3). Minor clarification on what is excluded from the call (page 4). Removal of upper limit on PDRAs (page 5).

## Appendix

### Je-S attachments Check List

<b>Attachment Type</b>	<b>Maximum Page length</b>	<b>Mandatory/ Optional</b>	<b>Extra Guidance</b>
Case for Support	Eight pages	M	Comprising up to two A4 sides for a track record, and six describing the proposed research and its context.
Justification for Resources	Two pages	M	
Work Plan	One page	M	
Pathways to Impact	Two pages	M	
Equipment Business Case	Two pages each	As required by EPSRC	Required for any items or combined assets with a value above £138,000.
Equipment Quotes	No page limits	As required by EPSRC	
Project Partner Letters of Support	No page limits	As Required by EPSRC	Must be included from all named project partners. Must be on headed paper, and be signed and dated within six months of the proposal submission date.
CVs	Two pages each	Optional	For named and visiting researchers, and researcher co-investigators only.

Letters of Support	No page limits	As Required by EPSRC	In exceptional circumstances a maximum of three letters can be submitted.
Proposal Cover Letter	No page limit	Optional	The cover letter can be used to highlight any important information to UKRI. This attachment is not seen by panel members.
Technical assessment	No page limit	As required by EPSRC	
Other attachment	No page limit	Not required	This can be used for a document that does not fit under any of the headings above. This attachment is not seen by panel members.

Please ensure that you adhere to the above attachment requirements when submitting your proposal. Any missing, over length or unnecessary attachments may result in your proposal being rejected.