# UK Energy Research Centre Phase 4

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

**Call type: Invitation to submit a proposal (closed call - invitation to submit issued to UKERC)**

**Closing date: 9 October 2018**

**Funding available:** £18M (80% FEC) to fund one research centre.

**How to apply:** Single-stage submission for full proposals.

**Assessment process:** The submitted proposal will undergo postal peer review, and will then be assessed by interview in an expert panel.

**Key dates:**

| Activity | Date |
| --- | --- |
| Je-S opens for full proposal | 10 July 2018 |
| Deadline for full proposal | 9 October 2018 |
| Interview panel | 10 December 2018 |
| Funding decision | January 2019 |
| Grant start date | April 2019 |

**Additional information:** The submitted proposal must include an institutional statement of support uploaded as 'Other' attachment.

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# UK Energy Research Centre Phase 4

**Call type: Invitation to submit a proposal (closed call - invitation to submit issued to UKERC)**

**Closing date: 16:00 on 9 October 2018**

## Summary

EPSRC, ESRC and NERC, as part of their contribution to the Cross-Council Energy Programme, are looking to support Phase 4 of the UK Energy Research Centre (UKERC). There is up to £18M available for this award (at 80% FEC), and the duration of the grant will be for five years. This is not an open call but an invitation to the current leaders to apply to continue UKERC into a Phase 4. The proposal must be a single submission with a single principal investigator (PI) leading the UKERC Phase 4 proposal.

## Background and context

The UK energy system must evolve to meet the Paris Agreement and associated UK carbon emission reduction commitments by 2050 (80% reduction on our 1990 baseline), as well as meeting the EU Renewable Energy Directive target of 20% renewables by 2020. A number of strategies have recently set the direction for UK energy, including the Clean Growth Strategy and the Industrial Strategy, aiming to build the UK competitive advantage in light of challenges such as decarbonising the energy sector. There are also more devolved policies such as the Scottish Energy Strategy, which highlights the importance of a whole-system view. However, energy is an intrinsically complicated landscape and these policies do not stand alone, with implications for the 25 Year Environment Plan (for example, the consequences for air pollution from different energy sources) and the Common Agricultural Policy (CAP) reform (with regards to land use for bioenergy crops).

The UK is on the cusp of transition with major changes already happening in the energy system. However, the future remains uncertain and unstable with, for example, implications of Brexit yet to be understood. These factors need to be taken together to allow the UK to take full advantage of the opportunities available, with whole-systems and interdisciplinary research playing a crucial role in making tough decisions on the pathways to follow to achieve clean, affordable, reliable and socially acceptable (the energy quadrilemma) supply and use of energy.

The Cross-Council Energy Programme is bringing together engineers and scientists from many areas to tackle the research challenges involved in creating new energy technologies and systems, and understanding and incorporating their social, economic and environmental implications. EPSRC leads the Energy

Programme, in which BBSRC, ESRC, EPSRC, NERC and STFC work together to develop and deliver energy research and training within a common strategic framework, using a whole-systems approach.

The Research Councils have funded UKERC since 2004. It is a key part of the Cross-Council Energy Programme and when established by the Research Councils, its mission was to be the UK's pre-eminent centre of interdisciplinary research in energy and source of authoritative information and leadership on sustainable energy systems; this is a centre that Research Councils want to continue funding. Its support to date has been provided by EPSRC, ESRC and NERC.

UKERC Phase 3 ends in April 2019. A Phase 3 Review happened in November 2017. The panel agreed that UKERC is an exemplary centre within its given scope, which is strategically important in the energy research landscape and it is recommended that UKERC's work should continue into another phase. A number of specific recommendations were provided by the panel and are provided later in the call document.

In light of the Review, the funders organised a Scoping Workshop to discuss the gaps and opportunities for whole-system energy research. The specific aim of the Scoping Workshop was to:

- address what the most important future interdisciplinary research questions are for the whole-systems energy research;

- consult with relevant stakeholders concerning the gaps in UKERC's research in Phase 3;

- produce suggestions for Phase 4 research themes; and

- recommend a vision and scope of work for Phase 4 in terms of impact and timeliness.

This call document incorporates the outputs from the UKERC Scoping Workshop.


## Funding available

There is up to £18M (80% FEC) available for this call, and the duration of the grant will be for five years.


## Structure of the centre

The UKERC programme will be supported through a centre structure which should consist of:

- a central function including core staffing, leadership and to provide a focal point for the whole-systems energy research community through networking and integration, strategic international engagement and collaboration, technology and policy assessment (TPA), research analysis, data and knowledge exchange activities;

- a clearly defined and structured research programme (at least 50% of the available funds); and

- a flexible research budget that can be deployed quickly as the need arises.

The exact split between the three elements is left to the applicants to propose but the rationale behind the split will need to be communicated in the proposal.

## Key elements of the centre

- A strongly visionary and integrative whole-systems work programme focused on championing inter-disciplinary research into appropriate environmental, social, physical, political, economic and engineering, biological and chemical aspects of the secure, affordable, equitable and sustainable supply and use of energy, adding value, and making a distinctive contribution to the UK and international energy research landscape. Whilst keen to encourage interdisciplinary whole-systems research the funding for the centre is being provided by EPSRC, ESRC and NERC, and so UKERC should ensure that the proposed research includes strong elements of physical sciences and engineering research, economic and social research and environmental research.

- UKERC should provide authoritative, strategic and independent research and research synthesis, drawing on the relevant strengths across the UK research base and beyond; a capability of providing a strong evidence base to inform current and future public debates on energy policy and ensure outputs are reviewed, recognised and utilised across businesses, industry and policy making bodies within the UK and internationally. In addition, UKERC should increase interaction with devolved governments and regional administrative authorities to strengthen the recognition of a single nation whole-system.

- A strong commitment to supporting the development of researchers at all stages of their career and to provide increased opportunities for professional development and networking.

- The flexible research programme should be used by UKERC to support a flexible, responsive, complimentary, interdisciplinary programme of innovative, whole-systems, policy-relevant and curiosity-driven research. UKERC should set out the principles and procedures for developing this activity and how the research will be commissioned and managed as part of UKERC.

- UKERC will be expected to identify synergistic research opportunities to support and pursue their strategy and research themes by bidding for other funding, and by obtaining input from project partners. UKERC should build in capability to co-ordinate new opportunities into their work stream as they emerge e.g. Prospering from the Energy Revolution ISCF Challenge (https://www.gov.uk/government/news/prospering-from-the-energy-revolution-full-programme-details).

UKERC is asked to prepare a proposal based on the above and addressing the comments below, especially the output from the Phase 3 Review and UKERC Scoping Workshop.

**UKERC organisation and governance**

In developing the proposal for Phase 4 the applicants should take into account the following points:

- Forge new strategic directions and objectives through an ambitious programme of work for Phase 4 that considers and takes forward projects of high priority from Phase 3.

- EPSRC, as the management council, will work with UKERC and funding research councils to agree an appropriate monitoring and evaluation process.

- The structure and composition of UKERC's executive leadership and advisory groups is working effectively. UKERC should review that changes are required and respond to the specifics outlined in this call.

- All supporting activities should be reviewed to ensure the most cost-effective delivery.

**UKERC branding**

UKERC will be expected to acknowledge the support of the Cross-Council Energy Programme and individual funders (EPSRC, ESRC and NERC) in all its social media, publicity, publications and public activities.

It is expected that UKERC will maintain continuity of service in its websites and other social media between funding phases, to maintain a recognised brand.

UKERC should also continue to ensure that outputs are clearly 'badged' and promoted as UKERC output. UKERC should co-design its research with its intended end-users (e.g. business and industry) and ensure that it is useful to these end-users (e.g. creating supply chains, jobs and employment opportunities).

**Support for UK Representation in the European Energy Research Alliance**

The proposal should include support for UK representation in the European Energy Research Alliance. UKERC should take a lead in ensuring appropriate UK representation at the Executive Committee and in all relevant Joint Programmes in consultation with the Research Councils. UKERC's proposal should include a request for the necessary funding for the UK representation at the Executive Committee and relevant Joint Programmes, including all fees.

**Studentships and capacity building**

EPSRC, NERC and ESRC are not able to provide a route for the support of project studentships within the £18M for UKERC Phase 4 - it is for UKERC to specify how they are going to engage with DTPs and CDTs, and how best they can work with students e.g. Whole Systems Networking Fund and CDT Masterclass.

In Phase 4, UKERC are to maintain a strong element of research capacity building, particularly inter-disciplinary working, to help build and strengthen whole-systems energy research in the UK.

UKERC should specifically approach EPSRC's DTPs for flexible awards to support doctoral training in any areas of engineering and the physical sciences with relevance to the EPSRC remit.

## Recommendations from Phase 3 Review

The UKERC Phase 3 Review panel provided a list of recommendations for Phase 4 which the Research Councils expect to be addressed in the UKERC Phase 4 proposal:

- UKERC should build on previous lessons learned about effective methods of engagement. There are opportunities to identify and pursue new areas of relevance and potential impact across a range of stakeholder communities, and these should be pursued recognising the time required in relationship building and the need to keep independence.

- UKERC should look beyond what it can add within current research and policy paradigms and capitalise on its unique position as a leader in interdisciplinary energy research. It should actively foster and work with other more challenging frameworks and ideas.

- The UKERC Energy Data Centre is very important and should be developed further.

- UKERC should clarify, build on and develop its role as a gateway to UK energy research and increase the UK visibility of this activity, recognising resources constraints and the need to prioritise.

- UKERC should increase its focus on integration of research and knowledge about transport, heat, electricity, and gas within the UK energy system.

- UKERC should make use of resources and mechanisms in emerging research centres of relevance, to refresh the UKERC agenda, share the load and exchange knowledge and methods.

- UKERC should keep up the good work of the "core" programme.

- There is still a strong need for a UKERC-type function/leadership in capacity building.

- UKERC should explore ways of funding and delivering studentships and training (including international training and summer schools) to grow capability in the UK and foster international partnerships.

# Research themes and cross-cutting areas

UKERC's research in Phase 4 should include the following five interlinking themes that were viewed to be critical areas of development within the Scoping Workshop - decarbonising heat; decarbonising transport systems; decarbonising industry; the intersection of landscape, environment and energy; and spatially distributed energy systems.

**Decarbonising heat** - Decarbonising the UK's heating system presents one of the greatest challenges to tackling emissions across domestic, business and other properties. There are a number of gaps in knowledge about the different options (hydrogen, heat pumps, and local heat networks) in terms of what works, delivery, consumer choices, etc. A whole-systems perspective of research under this theme would include options appraisals of measures for decarbonising heat, including, *inter alia*: assessment of the component technology; infrastructure and system change modelling; regulatory framework, policy and market analysis; characterisation of demographics, consumers and citizens; managing the process of transition and institutional innovation.

**Decarbonising transport systems** - This theme would gather a holistic understanding of the transport sector and how it will change in the future feeding into an understanding of what is needed in terms of infrastructure, policy and business to allow decarbonisation of the transport sector. The impact of this would be progress on decarbonisation of the transport sector but also broader improvements such as less congestion, better integration of transport systems, and business development opportunities (for example in batteries). The theme could also consider the trade-offs and co-benefits of decarbonising transport for achieving air quality and health outcomes. The need to integrate the natural and social science component into any economic assessment is critical for decision making based on a need to achieve long term and sustainable benefits.

**Decarbonising industry** - There are significant structural questions around how to drastically reduce emissions from industrial sectors which are central to our economy (e.g. the manufacturing of cement, steel, chemicals). These 'energy intensive' industries are characterised by significant demands for energy, generally in the form of heat supplied from fossil fuels with associated emissions of $CO_2$. In many cases the production processes themselves also create unavoidable emissions of greenhouse gases. Consideration of these issues in a whole-systems context requires research into environmental, technological, economic (affordability), social and political options for decarbonising industry. Alongside analysis and evaluation of existing infrastructure, this work should consider the options for greater integration of industrial sources (e.g. waste heat) and sinks of energy (e.g. interruptible demand) into the wider system. It also needs to take account of the work done elsewhere to explore the potential for radically reducing demand for the products of these industries and their lifecycle impacts on greenhouse gas emissions. These issues should be incorporated into energy system models and used to inform future policy around land use planning and the transition to a low carbon energy system.

**The intersection of landscape, environment and energy** - This theme would gather better evidence through existing data and monitoring to carry out scenario analysis which takes into consideration environment, technical feasibility, socio-economic factors, resilience and temporal scales. This will provide new scenario tools for mapping options, provide direction for resilience

and temporal pathways, and assessments and participation in an integrated way. The impacts from the research would include greater local community engagement in energy systems, ensuring enhanced legitimacy, trust and better decisions. There would be better evidence to inform debate and policy formulation and ultimately more cost effective and time efficient deployment of low carbon energy.

**Spatially distributed energy systems** - Moving towards a more spatially distributed energy system is highlighted in the Scottish Energy Strategy, while the Industrial Strategy puts "place" as one of the five foundations of productivity. The greater use of renewables will result in spatially distributed energy at local, regional and national scales. However, the implications of this and how they might be best managed to meet multiple societal objectives (economic, social and environmental) are poorly understood. This theme will have a focus on local systems but understand their interactions and relationships across multiple scales. The impact of this theme would be a larger role for local energy systems in the UK that will provide new markets and business models in local energy distribution and local economic regeneration and jobs.

In addition to these five interlinking themes, there are a number of cross-cutting areas that the funders expect to be addressed where relevant to thematic themes of research:

- Societal and community dynamics (including engagement and acceptability, policy and regulatory systems, values and behaviours).

- Energy resource availability.

- Wider energy resource use in energy systems (including, but not limited to, water, minerals, etc.).

- Resilience of energy systems, including to environmental, social and economic change and shocks.

- Relationship between the development of the energy system and economic growth i.e. implications of (and for) supply chains, innovation and trade in the transition to decarbonised energy systems (including electrification).

- Environmental impacts of energy systems, including water, air and soil pollution.

- Land use planning.

- Incorporating a natural capital/ecosystem services approach with energy research.

The five interlinking themes specified above should form the basis for the core research programme but UKERC have the freedom to define the precise structure of their research themes ensuring that all themes above are included and cross-cutting areas are integrated within the final interlinking themes.

The research themes are to be included within the bigger scope of UKERC through its leadership of whole-systems interdisciplinary research, through its own commissioning using flexible funding, influence over the commissioning of others and through research synthesis to translate the findings of individual research projects into evidence, responses to requests for advice and new

perspectives. UKERC should reimagine their research vision and retract from a business as usual approach. UKERC should show evidence of a balance between informing policy and government whilst championing new areas for new directions. The proposal should exemplify how UKERC will manage this balance.

## Equality, Diversity and Inclusion

The long term strength of the UK research base depends on harnessing all the available talent and the Research Councils have together developed the ambitious UKRI Equality, Diversity and Inclusion Action Plan.

In line with the UKRI Diversity Principles, EPSRC 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 EPSRC's Equality and Diversity webpages
https://www.epsrc.ac.uk/funding/equalitydiversity/ for further information.

## Equipment

Equipment over £10,000 in value (including vat) is not available through this call. Smaller items of equipment (individually under £10,000) should be in the Directly Incurred - Other Costs heading.

For more information on equipment funding, please see:
https://www.epsrc.ac.uk/research/facilities/equipment/

## Eligibility

For information on the eligibility of organisations and individuals to receive EPSRC funding, see the EPSRC Funding Guide:
https://www.epsrc.ac.uk/funding/howtoapply/fundingguide/

A list of eligible organisations to apply for Research Council funding is provided at: https://www.ukri.org/funding/how-to-apply/eligibility/

## How to apply

You should prepare and submit your proposal using the Research Councils' Joint electronic Submission (Je-S) System (https://je-s.rcuk.ac.uk/). The proposal must be a single application submitted by the lead institution.

The full proposal must be submitted by 16:00 on 9 October 2018.

## Submitting an application

You should prepare and submit your proposal using the 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'

- On the Project Details page you should select the 'UKERC Phase 4' 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 9 October 2018.

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://www.epsrc.ac.uk/funding/howtoapply/) which should be consulted when preparing all proposals.

## Guidance on writing an application

The proposal document should include the following:

**Case for support**

The case for support should be a maximum of 25 pages in total, to include:
• Two-page track record, which should detail the relevant expertise that each investigator will bring to UKERC. For the Principal Investigator there should be evidence of leadership and management skills.

• Nine page case for support covering the vision/overview and description of the proposed programme and central activities (including all necessary tables, references and figures). This section should detail the structured research programme that will be carried out and present objectives, deliverables and milestones.

• Two-page management description to include:

   o Management structure, including day-to-day management strategy and participant responsibilities.

   o Details of external advice streams, including external stakeholders

   o Monitoring strategy, including how the direction of UKERC and its research programme will be assessed.

• The principles and procedures for developing the flexible research fund and details of how the research will be commissioned and managed as part of UKERC (up to two additional sides of A4).

• A description of the central activities that the centre will undertake along with justification for these activities and for proposed on-going activities examples should be included of their past impact (up to four additional sides A4).

• A description of the stakeholder engagement activities that the centre will undertake (up to two additional sides of A4).

• A description of how new members are to be brought into the core centre activity (up to one additional side of A4).

• A description of how any IPR generated by UKERC will be handled (up to one additional side of A4).

• Description of additional research that will be explored through other funding sources and proposals for how that funding will be acquired (up to two additional sides A4).

**Pathways to Impact Plan**

Up to two pages. This document should describe who may benefit from the research, how they may benefit and what will be done to make sure they have the opportunity to benefit. More information on preparing the impact plan and more general information on economic impact can be found on our website at:

http://www.epsrc.ac.uk/funding/guidance/preparing/Pages/resourcesimpact.aspx

**Justification of Resources**

Up to two pages. This should be a narrative description of the need for the resources requested. Poorly written justification of resources are one of the most common causes of delay in processing proposals so please refer to the following address for guidance on what to include:

http://www.epsrc.ac.uk/funding/guidance/preparing/Pages/jor.aspx

**Workplan**

Up to two pages. It is not expected that this will be a Gantt chart for the whole time of the project, but should include a comprehensive plan for the start of the project and then refer to the management strategy to give appropriate milestones for when important decisions on the direction will be taken.

**Statements of Support**

These should only be provided for non-academic partners who will be making financial contributions (cash and in-kind) towards the Phase 4 of UKERC. A statement of support from project partners should be provided on headed notepaper with a date and signature from the named contact in the collaborating organisation. For advice on what these should contain see:

http://www.epsrc.ac.uk/funding/guidance/preparing/Pages/lettersofsupport.aspx

The submitted proposal must include an institutional statement of support uploaded as 'Other' attachment.

For advice on writing proposals see:

http://www.epsrc.ac.uk/funding/guidance/preparing/

Applicants should use the Ethical Information section on the Je-S form to demonstrate to peer reviewers 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.

Further guidance on completing the Je-S form can be found at https://je-s.rcuk.ac.uk/Handbook/pages/GuidanceonCompletingaStandardG/EthicalInformation.htm.

Other relevant guidance includes: EPSRC's policy on animal use in research (https://www.epsrc.ac.uk/about/standards/animalresearchpolicy/) and the Responsible Innovation Framework (https://www.epsrc.ac.uk/research/framework/).

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.

**User engagement strategy**

Successful applicants will be required to develop and execute a strategy for engaging with potential users of the research funded in the project (resources for this activity can be requested as part of the Pathways to Impact and must be justified in the application). This strategy should be reviewed and updated regularly as part of the formal management of the grant.

The strategy should cover:

- how and when potential users have been / will be identified;

- what form the engagement will take;

- what steps will be taken to ensure that outputs of the research are made available to potential users;

- suitable metrics for determining the success of the strategy in delivering value to users.

# Assessment

## Assessment process

The proposal will be reviewed by postal peer review and then sent to an assessment panel comprising of independent UK and overseas stakeholders with relevant expertise. The panel meeting will include an interview session at which the applicants will be required to present their proposal and respond to panel questions. The assessment panel will recommend to the UKRI whether the proposal for UKERC Phase 4 should be supported and if so whether any issues require addressing before funding approval is given.

## Assessment criteria

The panel will be asked to assess the proposals against the standard UKRI EPSRC criteria and the fit to the call specification. The panel will be asked to focus on the following particularly important aspects under the criteria:

### Quality

• Demonstration of a strong visionary and integrating whole-systems work programme focused on inter-disciplinary research. This will include appropriate environmental, social, physical, economic and engineering aspects of the secure, affordable, equitable and sustainable supply and use of energy, adding value and making a distinct contribution to the UK and international energy research landscape.
• Presentation of a strong, inter-disciplinary partnership of leading researchers with an international profile in the field.
• Inclusion of an internationally leading structured research programme.

### National Importance

• Justification of the national importance of UKERC including its research, capacity building and central activities on a 10-50 year timescale.
• Contribution to other research areas, societal challenges, success of the UK economy, emerging industries.

### Pathways to Impact

• The relevance and appropriateness of any beneficiaries or collaborators.
• Enhanced and early two-way engagement with stakeholders to help shape research questions.
• Identification of appropriate routes and resources for knowledge exchange and dissemination.

### Applicants' ability to deliver the proposed research

• Demonstration that the principal investigator of the centre has the experience and ability to run a large multi-institution collaboration, and evidence provided that they are able to act effectively as an advocate for the broad field of whole-systems energy research.
• Appropriateness of the track record of the applicants.
• Balance of skills of the team, including academic and non-academic partners.

**Resources and management**

• The effectiveness of the proposed planning and management.
• Identification of appropriate key milestones.
• Appropriateness and justification of the requested resources.
• Justification and demonstration of value for money and impact of central activities proposed to be carried forward in Phase 4.
• Identification of suitable process for taking forward the flexible research programme.

**Fit to the call**

• Addressed the issues raised in the Review.
• Justification of the themes in the fixed research programme element.
• Prioritisation of activities taken forward from Phase 3.

# Guidance for reviewers

Information about the EPSRC peer review process and guidance for reviewers can be found at: https://www.epsrc.ac.uk/funding/assessmentprocess/review/

Guidance for reviewing standard grants can be found here: https://www.epsrc.ac.uk/funding/assessmentprocess/review/formsandguidancenotes/standardgrants/

# Moving forward

Submissions to this call will count towards the Repeatedly Unsuccessful Applicants Policy. Further information about the policy can be found at: https://www.epsrc.ac.uk/funding/howtoapply/basics/resubpol/rua/

# Key dates

| Activity | Date* |
| --- | --- |
| Invitation to submit issued to UKERC | 10 July |
| Call closes | 09 October |
| Interview Panel | 10 December |

# Contacts

If you have any enquiries about this call please contact:

Jasmine Cain
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T: 01793 444427

Queries regarding Je-S should be directed to:

The Je-S helpdesk
E: JeSHelp@rcuk.ac.uk

T: 01793 444164

## Change log

| Name | Date | Version | Change |
|---|---|---|---|
| Jasmine Cain | 24 April 2018 | 1.0 | N/A |
| | | | |

# Appendices

## Je-S attachments Check List

| Attachment Type | Maximum Page length | Mandatory/Optional | Extra Guidance |
|---|---|---|---|
| Case for Support | 25 pages | Mandatory | See 'Case for Support' on page 10-11 of call document for information. |
| Pathways to Impact | 2 pages | Mandatory | |
| Workplan | 2 page | Mandatory | |
| Justification of Resources | 2 pages | Mandatory | |
| CVs | 2 pages each | As required by EPSRC | For named and visiting researchers, and researcher co-investigators only. |
| 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. |
| 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 EPSRC. This attachment type is not seen by reviewers or panel members. |
| Other attachment | No page limit | As required, at EPSRC request only | This can be used for a document that does not fit under any of the headings above. This attachment type is not seen by reviewers or panel members. |

Please ensure 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.