

## CAPITAL CALL 2022 CASE FOR SUPPORT

### 1. Asset description and location

- Provide the title, manufacturer and model of equipment where relevant.
- Provide the location of the asset at a department and institute level.
- Please note, a full breakdown of the asset is requested in question 9.

### 2. Science background and need (max. 2000 characters).

Your response should cover the following

- a) What are the main science questions the proposed asset will address or enable?
- b) How will the asset enable these questions to be addressed? OR How will the asset improve research capability and scientific output?
- c) If the proposed asset already exists elsewhere, please outline details of the other asset/s. What does the new asset provide that the other/s does/do not?
- d) How does the asset fit to the delivery of NERC research and innovation?

Please note, question 10 provides a blank 2 pages to further discuss the science need.

**3. Importance and timeliness (max. 2500 characters)**

Your response should cover the following:

- a) How will the asset create or support a step change in world class environmental science?
- b) How does the asset provide a unique capability or improve existing capabilities? Please use quantitative answers where possible, e.g. reduces analytical time from hours to seconds per analysis, rather than faster.
- c) How does the asset complement existing assets in the host institute?
- d) Why is it essential this proposal is funded now?
- e) What is the impact if this asset is not funded (e.g. samples can be outsourced to different laboratories)?

**4. User demand and usage (max. 2500 characters) Your response should cover the following**

- a) What is the community demand for the proposed asset?
- b) How will this asset meet this demand?
- c) Provide a total estimate of the percentage usage of the asset (100% being used as much as possible). Please then break this down into use across the host institute (e.g. user profile – student, postdoc, industry), and where this is less than 100%, other, external users.
- d) What long- and short-term plans are in place to enable maximum usage?
- e) Where relevant, has asset sharing been considered?
- f) How will the asset be made available for use by others?
- g) Where charges will be incurred for internal or external use, please provide an estimated cost of use.

When considering capacity and usage, it may be useful to refer to Section 7.2 Measuring Capacity in [the UKRI Infrastructure Landscape Analysis](#).

**5. Sustainability (max. 2500 characters) Your response should cover the following**

- a) What steps and considerations have been taken to ensure that the asset is as sustainable as possible (environmentally, economically and socially)?
- b) How is the proposed asset complementary to NERC or host institute carbon reduction targets?

Note: NERC Centres should detail how the project is complementary to the NERC commitment to have net zero emissions for all operations by 2040. Non-NERC funded applicants should note how the project complements the carbon reduction targets of the host organisation, where applicable.

- c) What is the expected lifetime of the asset?
- d) Will the proposed asset need to be decommissioned, and if so, how will this be done sustainably?
- e) How will you ensure maximum value for the lifetime of the asset?
- f) How will the long-term operational and maintenance costs, including staffing, be funded? Clearly outline any additional financial support provided by the host institute or elsewhere.
- g) Will the proposed asset be integrated into an existing NERC service, facility, equipment pool, or similar? If so, how?

**6. Impact (max. 2000 characters) Your response should cover the following questions**

- a) How will the asset generate wider impact (e.g. make data produced from equipment open source; create employment or training opportunities; stimulate the economy)?
- b) How will the natural environment be positively impacted by the asset?
- c) Does the asset have high potential to deliver large scale impacts, including social, environmental and/or economic benefits?
- d) Does the asset have potential to stimulate innovation? If so, what sorts of innovation and how?

**7. Costs**

a) State the overall cost in pounds sterling (£). This should align with at least one of the quotes attached to the application. If the host organisation is providing additional funding for the proposal, clearly state how much the host organisation is providing and the total funding requested from NERC.

b) Labour costs required for procuring and installing the asset may be included within the funds requested. If labour costs are included, please provide a justification why they are required and cannot be met elsewhere (max. 300 characters).

a)

b)

<b>8. Breakdown of asset components</b>			
Please provide details of the equipment requested. If the proposal is for multiple components being used to form a single asset, please detail individual components. Character limits are identified in the table; please add more rows as required.			
	<b>Name / brief description of component</b> (refer to the title, manufacturer and model where applicable) <b>(up to 300 characters per row)</b>	<b>If the proposal is for more than one component, being used to form a single asset:</b> explicitly state why each component is being requested as part of a collaborative asset. For joint bids please additionally explain how the assets will be hosted across different Research Organisations <b>(up to 500 characters per row)</b>	<b>Cost of the component incl. VAT (£K)</b>
<b>1</b>			
<b>2</b>			
<b>3</b>			
<b>4</b>			

<b>5</b>			
<b>6</b>			
<b>7</b>			
<b>8</b>			
<b>9</b>			
<b>10</b>			



**10. Use the additional 2 pages to provide more information, e.g. on the science need. (This section is optional)**

a) This could also include figures, pictures and diagrams

A large empty rectangular box with a black border, occupying the majority of the page, intended for the submission of a case for support.