

# Natural Environment Research Council – National Capability Services and Facilities (S&F) Commissioning

## NERC Services and Facilities commissioning (2018 – 2023)

### Summary

1. NERC is inviting a number of Service and Facilities (S&F) to apply for funding over a five-year period. S&F should submit proposals making a clear case for support of NERC as identified in this specification. Further funding calls for S&F not invited to apply to this call will be released at a later stage.

### Background

2. This call is part of a wider review and commissioning of NERC National Capability (NC). NERC NC enables the UK to deliver world-leading environmental science, support national strategic needs, and respond to emergencies. It includes the research and development activities which keeps this capability at the cutting edge. It describes the element of NERC-funded activity directly procured by NERC due to a combination of its scale and complexity.
3. The commissioning of the NERC S&F falls within the NC Services, Facilities and Data (NC-SFD) funding category. NC-SFD funding supports the UK environmental research community by providing unique services, either in terms of the equipment or the expertise of the staff.
4. NERC expects the S&F to be accessible to the research community within NERC’s scientific remit, to support research from all NERC funding streams, and to provide hands-on training to PhD students and research staff in particular.

### Scope of commissioning

5. The first round of S&F commissioning will commission the following facilities for a five year period from 1 April 2018 to 31 March 2023, unless stated otherwise:
  - Atmospheric Measurement Facility (AMF)<sup>1</sup> - Annex A
  - Chilbolton Facility for Atmospheric & Radio Research (CFARR)<sup>2</sup>- Annex B
  - Mesosphere Stratosphere Troposphere Radar Facility (MSTRF)<sup>2</sup> - Annex B
  - European Incoherent Scatter Radar UK Support Facility (EISCAT) - Annex C
  - Geophysical Equipment Facility (GEF) – Annex D
  - Ion Microprobe Facility (IMF) – Annex E
  - Culture Collection of Algae and Protozoa (CCAP) - Annex F
  - NERC Facility for Scientific Diving (NFSD) - Annex G
6. Applicants should note that the outcome-based approach adopted by this commissioning process places an onus on the applicant to demonstrate clearly how outcomes will be delivered.

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<sup>1</sup> AMF is to be commissioned through single proposal for 1 April 2018 – 31 March 2020 then re-submit a merged proposal with MSTRF & CFARR for a combined “Atmospheric Measurement Facility” for 1 April 2020 - 31 March 2023.

<sup>2</sup> MSTRF and CFARR are asked to submit a single proposal “Combined MSTRF + CFARR facility” for 01 April 2018 – 31 March 2020, then re-submit a combined proposal with AMF to form a single “Atmospheric Measurement Facility” for 1 April 2020 - 31 March 2023.

The commissioning and subsequent evaluation of all S&F will be assessed against a standard set of service requirements (outlined in Table 1).

### Funding

7. **Resource:** Funding for the S&F to be commissioned in this round will remain at the existing level for this commissioning period. Details for individual S&F can be found in Annexes A-G.
8. **Capital:** Proposals should include in the *Case for Support*, details of any additional capital investment needs (up to £2M). There is no guarantee of additional capital investment within this call and S&F should provide evidence that the capability proposed can be delivered without any additional capital. This should be seen as an opportunity to flag potential transformative investments and any agreed leverage to deliver this ambition.

### Eligibility

9. This opportunity is only open to those invited facilities, as detailed in the *Scope of Commissioning* section.

### Requirements and assessment criteria

10. Applicants will be expected to deliver against the overall essential NC objectives as outlined in the background section (paragraphs 2, 3, & 4). These requirements will also be used as a framework for future evaluation. Applicants should address the following criteria within their *Case for Support* using the following headings (table 1):

<b>Table 1 – S&amp;F requirements</b>
<p><b>Need to be supported by National Capability &amp; Contribution to NERC Charter Objectives (excellence, impact, skilled people, public engagement)</b></p> <ul style="list-style-type: none"> <li>• What capability will be provided by the S&amp;F, how will it ensure unique capability and provision of NERC <a href="#">National Capability</a>?</li> <li>• How will the S&amp;F capture impacts arising from the research supported by the S&amp;F?</li> <li>• State how the specific requirements of the user communities will be taken into account.</li> <li>• How will the S&amp;F grow both existing and new communities?</li> <li>• How will the S&amp;F identify and support training needs of the user communities?</li> </ul>
<p><b>Demand, usage &amp; access to and volume of service</b></p> <ul style="list-style-type: none"> <li>• How will access and usage be monitored?</li> <li>• How will the S&amp;F provide maximum facility access (maximum uptime)?</li> <li>• How will the S&amp;F collect and address user feedback, and monitor demand?</li> <li>• What mechanisms will be in place to ensure NERC grants are supported in a timely and appropriate way?</li> </ul>
<p><b>Physical capability (including Maintenance)</b></p> <ul style="list-style-type: none"> <li>• How will the S&amp;F identify future opportunities and need (financial, training, technical, equipment and physical capability)?</li> <li>• Describe how the S&amp;F will identify leverage opportunities to support future sustainability.</li> </ul>
<p><b>Staffing (Expertise and Service delivery)</b></p> <ul style="list-style-type: none"> <li>• How will the most appropriate level of staff be determined and how will they be equipped to support the users of the S&amp;F?</li> </ul>
<p><b>Governance arrangements and mechanisms to deliver science quality</b></p> <ul style="list-style-type: none"> <li>• Describe how the management and governance model best ensures effective delivery of the S&amp;F &amp; how it enables future development.</li> </ul>

<ul style="list-style-type: none"> <li>• What role will the S&amp;F play in insuring the quality of scientific outcomes?</li> <li>• What mechanism is in place to determine access to the service?</li> </ul>
<p><b>Upgrade /innovation</b></p> <ul style="list-style-type: none"> <li>• What areas will the S&amp;F prioritise for innovation (internally to facility &amp; support to scientific communities) e.g. technique, equipment and community standards (nationally or internationally).</li> </ul>
<p><b>Value for money and funding</b></p> <ul style="list-style-type: none"> <li>• How will the S&amp;F demonstrate Value for money? This may include (but not exclusive to) additional funding, joint agreements or leverage for use of buildings/facilities, staff, equipment or training. How will outputs be monitored?</li> <li>• How will the S&amp;F prioritise activities to meet resource allocations?</li> </ul>
<p><b>User engagement mechanisms</b></p> <ul style="list-style-type: none"> <li>• How will the S&amp;F identify, target and engage appropriate audiences and/or beneficiaries (e.g. core science community, industry, general public etc.)?</li> </ul>
<p><b>Risk Management and supplier competencies</b></p> <ul style="list-style-type: none"> <li>• How will the S&amp;F manage risk and minimise service down time?</li> <li>• How will the S&amp;F ensure they achieve and maintain the required competencies? (Industrial standards, Legal, Health &amp; Safety, Environmental, HR)</li> </ul>

### Assessment process

- Proposals will be assessed by an expert panel in January 2018. The panel will be tasked to consider whether the evidence provided is appropriate to address these requirements.
- Only applications from those S&F listed in *Scope of Commissioning* will be accepted in this call. NERC reserves the right to return submissions for amendment if documents do not meet the required submission criteria in the relevant annex (A-G, found below) and format requirements outlined in Table 2. Applicants will be informed within two weeks of the submission deadline if this is the case.
- While on this occasion NERC has invited submissions and anticipates funding each S&F in this commissioning round, the expert panel may seek points of clarification or provide recommendations for amendments to better fit the required S&F criteria.
- The final funding announcement will be communicated in January 2018, with the five year funding period commencing 01 April 2018.

### Reporting and review requirements

- All S&F will be required to report annually to their Steering committee on the service provided; the process should be overseen by the managing Research Centre. Annual reporting will directly align to Key Performance Indicators (KPIs) which will be included in S&F Benefits Realisation Plans.
- S&F, Research Centres and NERC will develop and agree Benefits Realisation Plans in parallel with the submission process. It is anticipated that a workshop will be held during winter 2017, to develop such plans. An agreed Benefits Realisation Plans will be a formal requirement of the agreement between the S&F and lead Centre before a grant is issued on 01 April 2018.
- It is expected that all S&F will have a steering committee to support and direct the facility. The membership of the committee is to be determined by the managing research centre with suggestions from the S&F and existing committee members. It is expected that the steering

committee will comprise of independent members who have expertise in the area.

18. The Terms of Reference for steering committees should be agreed by the S&F's relevant Research Centre. Any review and amendment should be agreed by Research Centres.

### How to apply

19. Proposals must be submitted using the Research Councils Joint Electronic Submission system (Je-S). To use this system, the applicant's Research Organisation must be registered as a Je-S user. Full details are available on the [Je-S website](#).
20. When using Je-S applicants should select;
  - Council > NERC
  - Scheme > NC&C
  - Call >NC S&F Commissioning NOV17
21. Applicants should account for costs and resources associated with NERC funding provided to the S&F within the Je-S funding forms. Funding will remain at the S&F's current level and Full Economic Cost (FEC) rate. For S&F's invited in round, NERC will continue to fund via existing contracts and Service Level Agreements (SLA's) where required. Details of individual S&F funding arrangements can be found in Annex A-G.
22. All costs associated with the S&F must be itemised and fully justified in the Justification of Resources document, with the following exceptions;
  - Estate costs
  - Indirect costs
  - Staff salary costs (not time, which must be justified)
  - Other Directly Allocated costs e.g. Infrastructure Technicians

Applicants should itemise breakdown of funding headings costs and resources associated with NERC funding provided to the S&F. Details of the funding categories can be found in the [NERC Research Grants and Fellowships handbook](#).

23. Applicants must ensure that their proposal is received by NERC by **4pm on 16 November 2017**. Further details for submission requirements can be found in Table 2 (below).
24. The following documents conforming to the stated page limits should be submitted as detailed in Table 2:

Table 2 – Proposal format	
Document/ attachment type	Requirements
Case for Support	<p><b>Up to 9 sides A4</b> in total, to cover:</p> <p><b>A. Up to 8 sides A4</b> on the following S&amp;F requirements (as seen in Table 1):</p> <ul style="list-style-type: none"> <li>• Need to be supported by National Capability &amp; Contribution to NERC Charter Objectives;</li> <li>• Demand, usage &amp; access to and volume of service;</li> <li>• Physical capability (including Maintenance);</li> <li>• Staffing (Expertise and Service delivery);</li> <li>• Governance arrangements and mechanisms to deliver science quality;</li> <li>• Upgrade /innovation;</li> <li>• Value for money/funding;</li> <li>• User engagement mechanisms;</li> <li>• Risk Management and supplier competencies</li> </ul> <p>Text addressing these criteria should include any underpinning and science programme elements, outlining key deliverables and outcomes by end of Year 5, including all necessary tables, references and figures.</p> <p><b>B. Up to 1 side A4</b> detailing how <i>up to</i> £2M additional capital would be allocated if available (including agreed leverage opportunities).</p>
Justification of Resources	<p><b>Up to 2 sides A4</b> for all collaborative organizations/locations.</p> <p>Provide a breakdown and justification of costs and resources associated with the funding provided by NERC. These figures should match those submitted in Je-S against the budget listed in the annexes below.</p> <p>If actual costs for S&amp;F differ to this budget allocated through NERC National Capability funding, S&amp;F's are invited to use this document to highlight the actual cost of operation. NERC does not guarantee any additional funding will be available during this commissioning process.</p> <p>Facilities should include a justification for all Directly Incurred Costs, Investigator effort, use of pool staff resources and any access to shared facilities and equipment being sought. It should include full justification of all facility costs (excluding HPC). Resources required for data management should be included if applicable.</p>

Pathways to Impact	<p><b>Up to 2 sides of A4</b></p> <p>Focusing on engagement with users (industry, business, government, charities or the general public). Considering a wider strategy for;</p> <ul style="list-style-type: none"> <li>• Who could potentially benefit from the S&amp;F over different timescales?</li> <li>• How might this value be realised?</li> </ul>
Letter of Support	<p>Letters of support should generally be from Project Partners or organisations relevant to delivering a specific service. Applicants should ensure that any letter of support adds value to the scientific case e.g. where access to data, facilities, infrastructure, equipment or information is being granted and/or leveraged.</p>

25. All documents (including embedded references) should be completed in single-spaced typescript of minimum font size 11 point Arial font or other sans serif typeface of equivalent size to Arial 11, with margins of at least 2 cm. Please note that Times New Roman, Arial narrow and Calibri are not allowable font types as they are smaller and any proposal which has used either of these font types within their submission will be sent back to re-submit. Page limit restrictions apply (Table 2) and should be adhered to. Failure to adhere to these guidelines will result in submissions being sent back for amendment.
26. Please note that on submission to council ALL non-PDF documents are converted to PDF, and the use of non-standard fonts may result in errors or font conversion, which could affect the overall length of the document. Additionally, where non-standard fonts are present, and even if 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 should be converted to PDF prior to attaching it to the proposal.

### Timetable

- Call documentation published September 2017
- Deadline for submission of facility proposal 16 November 2017 (4pm)
- S&F assessment panel meets January 2018
- Decision announced February 2018
- Start date for S&F 01 April 2018

### Contact

27. For general (non-Je-S) queries about this guidance, please contact Simon Howe ([sfmt@nerc.ac.uk](mailto:sfmt@nerc.ac.uk) /01793 418015).
28. Queries regarding the Je-S system will be handled via the Je-S help desk: [JesHelp@rcuk.ac.uk](mailto:JesHelp@rcuk.ac.uk) / 01793 444164).

### Other information

29. NERC is committed to Open Government and to meeting responsibilities under relevant legislation such as the Freedom of Information Act 2000 and the Environmental Information Regulations. NERC has an obligation to respond to specific requests and may be required to disclose information about or provided by applicants. If any of the information included in the proposal is considered to be confidential or sensitive, applicants should identify the relevant text and explain why they consider an exemption should apply and for how long, and what harm may come from disclosure and/or publication. Note that even where information has been highlighted as confidential, NERC may still be required to disclose and/or publish the

details, whether or not the application is successful. Further details are provided in the [NERC Grants Handbook](#).

### **List of annexes**

**Annex A:** AMF submission specifications

**Annex B:** Combined MSTRF + CFARR facility submission specifications

**Annex C:** EISCAT submission specifications

**Annex D:** GEF submission specifications

**Annex E:** IMF submission specifications

**Annex F:** CCAP submission specifications

**Annex G:** NFSD submission specifications

## Annex A: AMF submission specifications

### Commissioning scope

NERC will commission a single integrated Atmospheric Measurement Facility, to be delivered under the leadership of NCAS.

AMF will be commissioned through a single award in the first two years. At the end of this two-year period, AMF will be combined with Chilbolton Facility for Atmospheric & Radio Research (CFARR) and Mesosphere Stratosphere Troposphere Radar Facility (MSTRF) to create a single large “Atmospheric Measurement Facility”. This will be on the basis of a further three years of NERC National Capability funding, totalling a five-year award period. NERC Executive will consult with facilities in advance of this time to provide support for the process.

### Funding

For the initial two years, AMF funding will be provided via the existing NCAS SLA at the current rate at 100% FEC (as per the current arrangement.) During 2019/20 NERC will request a combined AMF facility bid (AMF + CFARR + MSTRF) that will be submitted via Je-S. Funding for the three year period will be paid at the combined total of the three facilities. Total funding for the provision of the S&F during the period is shown in the table below. NCAS will manage distribution and allocation of all funds for associated activities and management.

	2018/19	2019/20	2020/21	2021/22	2022/23	Notes
AMF	£668k	£668k				AMF only – CFARR and MSTRF will make their own submission for funding in 2018/19 - 2019/20
AMF combined facility	-	-	£1,272,500	£1,272,500	£1,272,500	AMF + CFARR + MSTRF

### How to apply

Professor Stephen Mobbs will act as Je-S submitter (and PI) in Je-S on behalf of NCAS as lead Research Centre with Dr Barbara Brooks as head of AMF as Co-I. Other AMF staff should also be listed on the Je-S form.

### Benefits Realisation Plan

NERC, AMF and NCAS will agree how the specific metrics to deliver the Benefits Realisation Plan will be achieved. This process will run in parallel to the S&F commissioning and be agreed by all parties prior to funding beginning in April 2018. These metrics will also inform annual reporting to NCAS and help inform future recommissioning activities.



## Annex B: Combined MSTRF + CFARR facility submission specifications

### Specific requirements for “Combined MSTRF & CFARR facility”

Mesosphere Stratosphere Troposphere Radar Facility (MSTRF) and Chilbolton Facility for Atmospheric & Radio Research (CFARR) will be commissioned with through a joint award, entitled “Combined MSTRF & CFARR facility”, led by NCAS to create a single facility for an initial two years. At the end of this two-year period, this combined facility will join with the existing Atmospheric Measurement Facility (AMF) to create a single large “Atmospheric Measurement Facility”. This will be on the basis of a further three years of NERC National Capability funding, totalling a five year award period. NERC Executive will consult with facilities in advance of this time to provide support for the process.

### Funding

MSTRF and CFARR will submit a combined application at the current funding level for a two year period commencing 1 April 2018. The current AMF will be commissioned separately for this two years period. During 2019/20 NERC will request a combined AMF facility bid (AMF + CFARR + MSTRF) that will be submitted via Je-S. Funding for the three year period will be paid at the combined total of the three facilities at 100% FEC.

For the initial two years MSTRF + CFARR funding will be provided through the existing NERC-STFC SLA at the current rate. Details for the submission of the combined AMF (AMF +CFARR + MSTRF) bid for 2020-2023 will be released in due course. Total funding for the provision of the S&F during the period is shown in the table below.

	2018/19	2019/20	2020/21	2021/22	2022/23	Notes
Combined MSTRF + CFARR submission	£604.5k	£604.5k				CFARR and MSTRF only – AMF will make their own submission for funding in 2018/19-2019/20  CFARR: £468k MSTRF: £136.5k
AMF combined facility	-	-	£1,272,500	£1,272,500	£1,272,500	AMF + CFARR + MSTRF

### How to apply

For the MSTRF + CFARR joint bid, Professor Stephen Mobbs will act as Je-S submitter (and PI) in Je-S on behalf of NCAS (as lead Research Centre) with Dr Chris Walden and Dr David Hooper as heads of CFARR & MSTRF respectively being Co-I’s. Other CFARR & MSTRF staff should also be listed on the Je-S form.

### Benefit Realisation plan

NERC, CFARR, MSTRF and NCAS should agree how the specific metrics to deliver the Benefits Realisation Plan will be achieved. This process will run in parallel to the S&F commissioning and be agreed by all parties prior to funding beginning in April 2018. These metrics will also inform annual reporting to NCAS and help inform future recommissioning activities.

## Annex C: EISCAT submission specifications

### Commissioning scope

NERC will commission the European Incoherent Scatter Radar UK Support Facility (EISCAT), for a five-year period commencing 1 April 2018, to be delivered under the leadership of NCAS. NERC will also provide the annual subscription to the EISCAT Association in accordance with the existing agreement.

### Funding

EISCAT will be commissioned at the current level for a five year period commencing 1 April 2018. Funding will be provided at the current rate at 100% FEC (as per the current arrangements) using the agreed division of funds between STFC and BAS as shown in the table below. STFC will receive funds via the existing NERC-STFC SLA, with BAS funds to be received directly, but reported against NCAS expenditure. This follows the same process as is currently in operation.

	2018/19	2019/20	2020/21	2021/22	2022/23	Notes
EISCAT	£156k	£156k	£156k	£156k	£156k	RAL: £104k BAS: £52k

### How to apply

For EISCAT, Professor Stephen Mobbs will act as submitter (and PI) in Je-S on behalf of NCAS as lead Research Centre with Dr Ian McCrea as head of EISCAT being the Co-I. Other EISCAT staff should also be listed on the Je-S form.

### Benefits realisation Plan

NERC, EISCAT and NCAS should agree how the specific metrics to deliver the Benefits Realisation Plan will be achieved. This process will run in parallel to the S&F commissioning and be agreed by all parties prior to funding beginning in April 2018. These metrics will also inform annual reporting to NCAS and help inform future recommissioning activities.

## Annex D: GEF submission specifications

### Commissioning Scope

NERC will commission Geophysical Equipment Facility (GEF) for a five-year period commencing 1 April 2018. GEF will be delivered under the leadership of BGS, as per existing arrangements.

### Funding

GEF will be commissioned at the current level for a five year period commencing 1 April 2018. Funding will be provided at the current rate of £522k per year at 80% FEC using the existing arrangements between BGS and GEF host partner locations (nodes) currently in operation. Total funding (at 80% FEC) for the provision of GEF during the period is shown in the table below. BGS will manage distribution and allocation of all funds for associated activities and management.

	2018/19	2019/20	2020/21	2021/22	2022/23
GEF	£522k	£522k	£522k	£522k	£522k

### Specific requirements for GEF

The proposal should clearly explain how the unique skills distribution provided by the current set-up justifies the need for four nodes. Applicants are expected to justify how the current facilities support geophysical capability and describe any potential opportunities to create an efficient focus of expertise and resources that could create efficiencies whilst still providing the same capability.

Proposals should also provide details of any agreed or potential leverage opportunities and how these will be approached.

### How to apply

For GEF, Adele Gardner will act as submitter (and PI) in Je-S on behalf of BGS as lead Research Centre with Professor England, Professor Peirce, Professor Henstock and Dr Essery respectively as head of GEF nodes being the Co-I's. Other GEF staff should also be listed on the Je-S form.

### Benefits realisation Plan

NERC, GEF and BGS should agree how the specific metrics to deliver the Benefits Realisation Plan will be achieved. This process will run in parallel to the S&F commissioning and be agreed by all parties prior to funding beginning in April 2018. These metrics will also inform annual reporting to BGS and help inform future recommissioning activities.

**Annex E: IMF submission specifications**

**Commissioning Scope**

NERC will commission Ion Microprobe Facility (IMF) for a five year period commencing 1 April 2018. IMF will be to be delivered under the leadership of BGS, as per existing arrangements.

**Funding**

IMF will be commissioned at the current level for a five year period commencing 1 April 2018. Funding will be provided at the current rate at 80% FEC using the existing arrangements between BGS and IMF currently in operation. Total funding (at 80% FEC) for the provision of IMF during the period is shown in the table below. BGS will manage distribution and allocation of all funds for associated activities and management.

	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
IMF	£233k	£233k	£233k	£233k	£233k

**How to apply**

For IMF, Adele Gardner will act as submitter (and PI) in Je-S on behalf of BGS as lead Research Centre with Professor Harley, Professor Wood and Dr Craven respectively as heads of IMF being the Co-I’s. Other IMF staff should also be listed on the Je-S form.

**Benefits realisation Plan**

NERC, IMF and BGS should agree how the specific metrics to deliver the Benefits Realisation Plan will be achieved. This process will run in parallel to the S&F commissioning and be agreed by all parties prior to funding beginning in April 2018. These metrics will also inform annual reporting to BGS and help inform future recommissioning activities.

## Annex F: CCAP submission specifications

### Commissioning Scope

NERC will commission Culture Collection of Algae and Protozoa (CCAP) for a five-year period commencing 1 April 2018. CCAP will be to be delivered under the leadership of NOC; this represents a change from your existing governance arrangements and NERC HO will ensure the budgets are amended to reflect this change.

### Funding

Funding will be at the current level for a five-year period commencing 1 April 2018. Funding will be provided at the current rate at 100% FEC and will be paid via NOC directly to CCAP. Total funding for the provision of the S&F during the period is shown in the table below. NOC will manage distribution and allocation of all funds for associated activities and management.

	2018/19	2019/20	2020/21	2021/22	2022/23
CCAP	£430k	£430k	£430k	£430k	£430k

### How to apply

For CCAP Natalie Campbell will act as submitter (and PI) in Je-S on behalf of NOC (as lead Research Centre). Christine Campbell and John Day of CCAP, will be the Co-I's. Other CCAP staff should also be listed on the Je-S form.

### Benefits Realisation Plan

CCAP and NOC should agree how the specific metrics to deliver the Benefits Realisation Plan will be achieved. This process will run in parallel to the S&F commissioning and be agreed by all parties prior to funding beginning in April 2018. These metrics will also inform annual reporting to NOC and help inform future recommissioning activities.

## Annex G: NFSD submission specifications

### Commissioning scope

NERC will commission the NERC Facility for Scientific Diving (NFSD) for a five-year period commencing 1 April 2018. NFSD will be to be delivered under the leadership of NOC; this represents a change from your existing governance arrangements and NERC HO will ensure the budgets are amended to reflect this change.

### Funding

Funding will be at the current level for a five-year period commencing 1 April 2018. Funding will be provided at the current rate at 100% FEC and will be paid via NOC directly to NFSD. Total funding (at 100% FEC) for the provision of NFSD during the period is shown in the table below. NOC will manage distribution and allocation of all funds for associated activities and management.

	2018/19	2019/20	2020/21	2021/22	2022/23
NFSD	£241k	£241k	£241k	£241k	£241k

### How to apply:

For NSFD Natalie Campbell will act as submitter (and PI) in Je-S on behalf of NOC (as lead Research Centre). Dr Sayer, as head of NFSD, will be the Co-I. Other NFSD staff should also be listed on the Je-S form.

### Benefits Realisation Plan

NFSD and NOC should agree how the specific metrics to deliver the Benefits Realisation Plan will be achieved. This process will run in parallel to the S&F commissioning and be agreed by all parties prior to funding beginning in April 2018. These metrics will also inform annual reporting to NOC and help inform future recommissioning activities.