



NCMAS

NCMAS 2027 Call for Applications Guidelines (Information for Applicants)

Last Modified 10 August 2026

Key Dates

10 Aug 2026	Applications open (2pm AEST / 12noon AWST)
2 Oct 2026	Applications close (7:00pm AEST/5:00pm AWST)
3-4 Dec 2026	Scientific Advisory Committee meeting for allocations
18 Dec 2026	Allocations announced



Table of Contents

<i>Introduction.....</i>	<i>4</i>
<i>HPC Facilities and HPC resources available.....</i>	<i>4</i>
National Computational Infrastructure (NCI)	5
Pawsey Supercomputing Research Centre	7
<i>Application Categories</i>	<i>10</i>
Category 1– Minimum Resource Allocation (MRA)	10
1a. Minimal 1b. Early Career Researcher (ECR) 1c. Special Consideration (SC) 1d. Emeritus	10
Category 2 – Standard	10
<i>Eligibility criteria and project requirements.....</i>	<i>11</i>
Applicants	11
Size of Resource Requests including Minimum and Maximum Requests	11
Other application requirements	12
<i>Assessment Criteria, Scoring and Ranking</i>	<i>13</i>
<i>Roles and responsibilities</i>	<i>15</i>
Lead Chief Investigator (Lead CI)	15
Chief Investigator (CI).....	15
Delegated Lead CI	15
Researcher	15
<i>Your Application - What to Include.....</i>	<i>16</i>
1) Proposal and Computational Details	16
2) Information on the project research team and prior HPC experience	17
<i>Your Application - How to Submit</i>	<i>19</i>
Application Workflow	19
.....	20
<i>Assessment of applications</i>	<i>21</i>
Merit Assessment and Allocation Protocol - 2027 NCMAS SAC	21
Administrative Assessment and Technical Assessment.....	21
<i>Successful Applicant Requirements and Conditions of Use.....</i>	<i>22</i>
Acknowledging NCMAS	22
Progress Report	22
Autonomous Sanctions, Defence Trade Controls Act, and Defence Strategic Goods List	22
Email Addresses	23

<i>Unsuccessful Applicants – Alternative HPC Options</i>	<i>23</i>
<i>Appeal Process.....</i>	<i>23</i>
<i>Key Dates, tips for completing your application and further support available.....</i>	<i>24</i>
Key Dates.....	24
Tips for successfully completing your application	24
Further support available	25
<i>NCMAS 2027 Applicant Checklist.....</i>	<i>25</i>
<i>Appendix</i>	<i>26</i>
HPC Resourcing Alternatives - Start-up and Introductory Schemes	26
<i>NCMAS Progress Report Template</i>	<i>27</i>
Errata.....	29

Introduction

The National Computational Merit Allocation Scheme is Australia's premier grant scheme for access to high-performance computing (HPC) resources. The two Tier-1 HPC facilities in Australia, the National Computational Infrastructure (NCI) and the Pawsey Supercomputing Research Centre (Pawsey), together offer hundreds of millions of hours of computing time to meritorious researchers.

The NCMAS 2027 Call for Applications will be open from 10 Aug to 2 Oct 2026. **Applications close at 19:00 (7pm) AEST / 17:00 (5pm) AWST on 02 Oct 2026. Late applications will not be accepted.**

All applicants (Lead CIs) and members of their research groups should read the following application guidelines and reference information in full before preparing an application.

This NCMAS information for applicants may be updated during the Call for Application period to clarify rules and processes as determined by the Scientific Advisory Committee (SAC) Chair or participating HPC facilities.

The **NCMAS 2027 Call for Applications** is expected to be highly competitive. Last year:

- About 884 million SU (service units) in total were awarded to applicants at the two HPC facilities, NCI and the Pawsey Supercomputing Centre.
- Allocated resources were only ~40% of the total requested resources, with the scheme more than 2.5x oversubscribed.
- 110 of 235 applications (~47%) received allocations on one or more of the HPC facilities.

Please see the [FAQ page](#) if you have queries regarding the application process. If you have further questions about the NCMAS 2027 Call for Applications, they can be submitted by email to ncmas@nci.org.au.

HPC Facilities and HPC resources available

System	Total Allocation (kSU)	Equivalent Core Hours
NCI: Gadi	350,000	175,000,000
Pawsey: Setonix CPU	325,000	325,000,000
Pawsey: Setonix GPU	160,000	275,000,000*
Pawsey: Setonix Q	25,000	20,937,500**

All references to computational resources in NCMAS supporting documentation will be in units of kilo-service-units; 1 kSU = 1,000 service units (SU).

* AMD GPU Compute Unit (CU) hours, with 220 Compute Units per single AMD MI250X GPU

** NVIDIA GH200 has 72 cores and 132 Streaming Multiprocessors; 1SU of quantum processing unit is equivalent to 1 core hour based on \$ cost

Key information on the NCI and Pawsey HPC facilities follows.

National Computational Infrastructure (NCI)	
Facility overview	NCI is Australia's national research computing service. We enable transformative science through big data and computing technologies, platforms and expertise. Our innovative, world-class services support the needs of research and industry today and into the future. NCI's major collaborators include The Australian National University; The University of New South Wales; CSIRO – Australia's national science agency; the Australian Bureau of Meteorology – the national meteorological agency; Geoscience Australia – the national geosciences agency and the New South Wales Department of Planning and Environment. Since 2007, NCI's collaboration has expanded to include many other Australian universities and medical research institutes. NCI's infrastructure was established through Commonwealth Government funding. NCMAS allocations for 2027 will be on NCI's world-class supercomputer – Gadi. This system comprises a total of 4,962 nodes, made up of: • 3074 nodes each with two 24-core Intel Xeon Scalable 'Cascade Lake' CPUs configured with 192 GiB RAM. 50 of the Cascade Lake nodes offer 1.5 TiB of RAM, using Intel Optane DC Persistent memory. • 720 nodes each with two latest-generation 52-core Intel Xeon Scalable 'Sapphire Rapids' CPUs configured with 512 GiB of RAM. • 160 nodes each with four NVIDIA V100 GPUs and two 24-core 'Cascade Lake' CPUs. • 30 nodes each with four NVIDIA H200 GPUs and two 24-core 'Emerald Rapids' CPUs. • 2 nodes each with the NVIDIA DGX A100 system, comprised of 8 A100 GPUs per node. • A further 1006 nodes containing 14- or 16-core Intel 'Broadwell' and 'Skylake' CPUs, with various RAM configurations up to 512 GiB per node. • Just for information, Gadi will be receiving an upgrade sometime in next couple of years and the total resources to be available in the next round should be known sometime next year. Gadi's data interconnect is Mellanox HDR InfiniBand, capable of data transfers at 200 Gb/sec. NCI also offers persistent data storage more than 90 petabytes. Data holdings include significant national and international data collections. NCI also operates the Nirin compute cloud for ancillary computing and data services. The Australian Research Environment provides access to Gadi through a graphical user interface, with standard Gadi functionality and discipline-specific research environments available through the platform.
NCMAS computing resources	350 MSU on Gadi.
NCMAS storage resources	A 1 TiB default space allocation is available on high-speed scratch filesystem for every successful application. A file expiry program runs on /scratch filesystem. Files not accessed for more than 100 days are quarantined and subsequently removed if not retrieved with-in 14 days. 1 PiB persistent storage (/g/data) is available to the NCMAS scheme. Applicants should specify their storage needs in their applications. Allocations are limited to the duration of compute allocation – the 2027 calendar year. GData allocations will be zeroed by end of January 2028. Projects are expected to backup and free this space before then.

Software	NCI maintains many software packages for use on its systems. The NCI application software catalogue is available online at our software applications page .
User support	NCI operates an expert Service Desk for users during normal business hours between 9:00am and 5:00pm AEST/AEDT on weekdays except for ACT public holidays and the extended Christmas closure period. NCI Academic Consultants / Staff Scientists can provide assistance with user/project registration and operational issues, and can offer advice on code development and performance, and the use of scientific software in HPC environments.

Pawsey Supercomputing Research Centre

Facility overview

The Pawsey Supercomputing Research Centre is a Tier-1 national supercomputing facility accelerating scientific discoveries for Australia's researchers. Located in Perth, Western Australia, Pawsey is currently serving scientists across the nation in domains such as radio astronomy, energy and resources, engineering, climate, bioinformatics and health sciences. Pawsey supports Australia's commitment to the Square Kilometre Array (SKA) through the Australian pathfinder projects, the Australian Square Kilometre Array Pathfinder (ASKAP) and the Murchison Widefield Array (MWA) telescopes. Pawsey provides services available to all Australian computational researchers through meritorious allocation schemes including NCMAS.

The Pawsey Supercomputing Research Centre is operating the Setonix supercomputer, ranked 81 and 35 in the global Top500 and Green500 rankings respectively. The supercomputer delivers more than 43 petaFLOPs to help power high-impact Australian research projects. Setonix provides a substantial increase of computational resources available from in NCMAS, enables science and accelerates discovery.

More information: <https://discover.pawsey.org.au/project/setonix>

Setonix is built using exascale technology available in the HPE Cray EX supercomputer, with expanded data storage capabilities through the Cray ClusterStor E1000 system, significantly increased compute power and more emphasis on accelerators with 3rd generation AMD EPYC™ CPUs and 2nd generation AMD Instinct™ GPUs. Setonix is particularly suited for compute problems (i.e. application codes and datasets) that have high network bandwidth requirements, and/or scalable problems that would benefit from the HPE Cray Slingshot interconnect.

Applications for time on Setonix must demonstrate the ability to run highly scalable applications and workflows and make effective use of the architecture.

Setonix-Q applications must additionally demonstrate the need for access to NISQ QPUs and provide a brief summary of previous simulations or how project will proceed from simulation to QPUs.

Setonix CPU resources are arranged in nodes of 128 AMD Milan cores, with 256 gigabytes of memory per node.

Setonix GPU resources will be arranged in nodes of 4 AMD MI250X GPUs, with a 64-core AMD EPYC CPU and 256 gigabytes of memory per node. A subset of the Setonix GPU partition will have an increased 512 GiB of memory per node.

Setonix-Q resources are explicitly broken into classical & quantum components.

- **Classical** component of the allocation provides access to the Setonix-Q nodes of 4 NVIDIA GH200 superchips. Each GH200 superchips has a 72-core NVIDIA Grace ARM CPU and a H200 GPU, with 880 gigabytes of memory per node, 95 gigabytes per H200 GPU.
- **Quantum** component of the allocation provides access to AWS Braket hosted QPUs through Setonix-Q Quantum Hub portal. The available QPUs is subject to change.

More information: [Setonix Guides - User Support Documentation](#)

NCMAS computing resources	• 325 MSU on Setonix CPU • 160 MSU on Setonix GPU • 25 MSU on Setonix Q <table border="1" data-bbox="400 331 1339 781"> <thead> <tr> <th data-bbox="400 331 871 371">Resources used</th><th data-bbox="871 331 1339 371">Service Units</th></tr> </thead> <tbody> <tr> <td data-bbox="400 371 871 434"></td><td data-bbox="871 371 1339 434"> CPU: 128 AMD Milan cores per node GPU: 4 AMD MI250X GPUs per node Q: 4 NVIDIA GH200 per node </td></tr> <tr> <td data-bbox="400 434 871 474">1 CPU core / hour</td><td data-bbox="871 434 1339 474">1</td></tr> <tr> <td data-bbox="400 474 871 515">1 CPU / hour</td><td data-bbox="871 474 1339 515">64</td></tr> <tr> <td data-bbox="400 515 871 555">1 CPU node / hour</td><td data-bbox="871 515 1339 555">128</td></tr> <tr> <td data-bbox="400 555 871 595">1 GPU / hour</td><td data-bbox="871 555 1339 595">128</td></tr> <tr> <td data-bbox="400 595 871 636">1 GPU node / hour</td><td data-bbox="871 595 1339 636">512</td></tr> <tr> <td data-bbox="400 636 871 676">1 Q GPU/hour</td><td data-bbox="871 636 1339 676">256</td></tr> <tr> <td data-bbox="400 676 871 716">1 Q node/hour</td><td data-bbox="871 676 1339 716">1024</td></tr> <tr> <td data-bbox="400 716 871 781">100 shots on AWS QPUs</td><td data-bbox="871 716 1339 781">16-342[†]</td></tr> </tbody> </table> † SU costs depend on \$ cost of access to specific QPU.	Resources used	Service Units		CPU: 128 AMD Milan cores per node GPU: 4 AMD MI250X GPUs per node Q: 4 NVIDIA GH200 per node	1 CPU core / hour	1	1 CPU / hour	64	1 CPU node / hour	128	1 GPU / hour	128	1 GPU node / hour	512	1 Q GPU/hour	256	1 Q node/hour	1024	100 shots on AWS QPUs	16-342 [†]
Resources used	Service Units																				
	CPU: 128 AMD Milan cores per node GPU: 4 AMD MI250X GPUs per node Q: 4 NVIDIA GH200 per node																				
1 CPU core / hour	1																				
1 CPU / hour	64																				
1 CPU node / hour	128																				
1 GPU / hour	128																				
1 GPU node / hour	512																				
1 Q GPU/hour	256																				
1 Q node/hour	1024																				
100 shots on AWS QPUs	16-342 [†]																				
NCMAS storage resources	High performance /scratch filesystem is available for short term use by jobs actively running on the system. There is a purge policy implemented on /scratch, files are deleted automatically after 30 days from their last modification. Each project will be allocated project storage of 0.5 terabyte by default, on Pawsey’s object storage system Acacia. Project storage allocations are limited to the duration of compute allocation – the 2027 calendar year. In addition, researchers can apply for managed storage allocations, separately from NCMAS. Managed storage access is intended for storing larger data collections with demonstrable research value according to a curated lifecycle plan. More information.																				
Setonix-Q	The Setonix Q is designed for researchers with demonstrated expertise and a strong track record in quantum computing. It provides access to a hybrid quantum-classical computing environment, enabling scalable quantum algorithm development and testing. The scheme provides access to classical computing hardware for quantum computing simulation and hybrid quantum-classical workflows. Pawsey’s Quantum Hub portal provides access to Quantum Processing Units (QPUs) hosted on AWS Braket. The minimum allocation is 1M SU, with the allocation split: • 80% of the allocation provisioned on classical resources (NVIDIA GH200 nodes on Setonix) available for quantum computing simulations, and • 20% of the allocation provisioned on the Pawsey Quantum Hub Portal which provides access to AWS Braket. Example: Allocation of 2M SUs on Setonix-Q will consist of 1.6M SUs on classical resources for quantum computing simulations, and 0.4M SUs on AWS Braket QPUs.																				

	Allocations are tracked and consumed differently between the two components. • Classical: follows Setonix-CPU/GPU for how current and total budgets are allocated, queried and tracked. Allocations are split quarterly and usage can be viewed using Origin. Like Setonix-CPU/GPU, usage can exceed 100% with jobs running at a lower priority. • Quantum: tracked using the projects dashboard located at the hub.quantum.pawsey.org.au. Allocation is provided for the entire year but usage cannot exceed 100%. Additionally, the SU cost is variable, depending on QPU device used and can change without notice. We will endeavour to communicate changes but cannot provide advanced warning of SU changes. More information: help@pawsey.org.au
NCMAS visualisation resources	Pawsey provides remote visualisation services through web on dedicated Linux and Windows nodes with NVIDIA GPUs. This enables the researchers to visualise their large-scale data without the need to transfer the data and a range of scientific visualisation software are supported. In addition, researchers in WA can get access to the state-of-the-art visualisation lab, which could enable them to undertake research and collaborations. More information.
Software	Most supercomputing-class software that runs on Linux may be installed, with popular packages centrally installed and supported. Licensed software (e.g. Fluent) may be used, with your own licences. Pawsey does not purchase licences for user applications. It is up to you to ensure your licence permits your use of the software at Pawsey. More information: https://pawsey.atlassian.net/wiki/spaces/US/pages/51925890/Software+Stack+Policies If applying for multiple resources (such as Pawsey and NCI), it should be clearly stated what software will be run on each facility.
User Support	The Pawsey Help Desk is the primary access point for all requests or issues relating to Pawsey systems or services, it is accessed via email (help@pawsey.org.au) or the Service Desk Portal. The Help Desk is staffed between 9am and 5pm AWST on weekdays except for Western Australian public holidays and the extended Christmas closure period. In addition to the general Level 1 support, Level 2 in-depth technical support and Level 3 expert supercomputing applications support is available as escalation points. Pawsey also provides training courses and extensive documentation relating to the use of Pawsey's systems and services.

Application Categories

NCMAS applications are accepted in two categories: Minimum Resource Allocation (Includes subcategories: Minimal, Early Career Researcher (ECR), Special Consideration (SC) and Emeritus) and Standard

Category 1 – Minimum Resource Allocation (MRA)

1a. Minimal

1b. Early Career Researcher (ECR)

1c. Special Consideration (SC)

1d. Emeritus

Category 1 (MRA) will be for any applications that request for up to 1000 kSUs (1MSU) per annum. Any eligible CI can apply in this category and must choose one of the subcategories suitable to them.

The **Minimal** is an open subcategory for anyone planning to lodge an application for up to 1000 KSU (1MSU) only.

The **ECR** subcategory provides an opportunity for researchers who have been awarded a PhD within the last five (5) years (relative to opportunity). Early Career Researcher applications are highly competitive. Applicants are expected to demonstrate a record of independent research funding, such as an ARC DECRA, NHMRC CDA, or similar award.

The **SC** subcategory provides a limited number of special allocations to applicants who may otherwise not be competitive in NCMAS. For example, an individual who has returned to a research role following a significant career interruption.

The **Emeritus** subcategory supports researchers with emeritus and/or retired/adjunct status to access computing resources on HPC facilities to continue their research activities.

For Minimal/ECR/SC/Emeritus requests, if their proposal is considered meritorious, they will be awarded the minimum allocation for their chosen facility (see table below). Requests must only be made on one HPC facility, e.g. ECR applicants **cannot** request resources on **both** Gadi and Setonix.

Category 2 – Standard

Resource requests are not restricted. Applicants are expected to demonstrate successful utilisation of national HPC facilities at scale and have a track record of research outcomes and independent funding. In this category applications may request more than 1000 KSU (1MSU), for maximum refer to table below.

Facility-System	Minimum Allocation (kSU/Year)	Maximum Allocation (kSU/year) (Category 2)
NCI: Gadi	> 1,000	17,500
Pawsey: Setonix CPU	> 1,000 (combined)	32,500
Pawsey: Setonix GPU		16,000
Pawsey: Setonix Q	> 1,000	7,500

If you want to request exactly 1000KSU (1MSU), consider applying under Minimal subcategory in Category 1.

Eligibility criteria and project requirements

Applicants

The proposed project must be led by one or more Chief Investigators (CI), with one designated Lead CI.

For all applicants:

- In accordance with guidelines for access to Commonwealth-funded research infrastructure and relevant Australian Government legislation, **Lead CIs and CIs of NCMAS projects must hold at least a 0.2 FTE research position or Emeritus status at an Australian higher-education institution, research institute or publicly-funded research agency, and be based in Australia (i.e. NCMAS eligible institutes)**. If an applicant (Lead CI) holds a fixed duration contract for at least 0.2 FTE for the calendar year 2027, they are eligible to apply to NCMAS in the current round.
- An individual may be named as a Lead CI or CI on **only one** NCMAS 2027 application.
- Lead CIs or CIs on an NCMAS application must provide evidence of independent research funding, for example, grants from the ARC or NHMRC.
 - Any grants referenced by a Lead CI or CI must name that applicant as a primary (named) recipient.
 - Applications citing grants on which the applicants are not primary (named) grant recipients will be disqualified for non-compliance.
- A person holding a Postdoctoral appointment at an **NCMAS eligible institute** can apply as a Lead CI, providing that the postdoctoral appointment is beyond 2027 in
 - the Minimal subcategory; or
 - the ECR subcategory if eligible;
 - the Standard category, the application will be assessed in as a Standard application.
- A person undertaking a higher degree by research is **not eligible** to be a Chief Investigator (CI) or Lead Chief Investigator (Lead CI) on an NCMAS proposal.

For those applying to NCMAS under the ECR, SC and Emeritus subcategories, the following additional requirements apply.

- Specific eligibility requirements exist:
 - For the ECR subcategory, the applicant (Lead CI) must have been awarded a PhD within the previous five (5) years (relative to opportunity).
 - For the SC subcategory, the applicant (Lead CI) must have been awarded a PhD within the previous nine (9) years (relative to opportunity).
 - For the Emeritus subcategory, the applicants must have Emeritus or Adjunct status with an **NCMAS eligible institute** and proven expertise and publications in the past five (5) years (research grants are not required).
- An individual may apply for an SC category allocation for a maximum of three (3) consecutive years.
- Specific proposal limits apply: See [Page limits](#) below
- The allocation is the minimum allocation of the requested facility.
- Requests must only be made on one HPC facility (NCI or Pawsey).

Size of Resource Requests including Minimum and Maximum Requests

Minimum requests

Each facility has set a minimum resource request size (see table below). Applications that do not request, or are assessed as not requiring, at least the minimum allocation at a selected facility will not be awarded NCMAS resources at that facility, i.e. **will be deemed ineligible**.

Applicants requiring less than the NCMAS minimum allocation are encouraged to approach their home institution, regional or state-based HPC consortia (examples: Intersect, QCIF, TPAC), or other merit or partner schemes on the national facilities with their resource request.

Facility-System	Minimum Allocation (kSU/Year)	Equivalent Core KHours (for minimum allocation)	Maximum Allocation (kSU/year) (Category 2)
NCI: Gadi	1,000	500K	17,500 (5%)
Pawsey: Setonix CPU	1,000 (combined)	between 1,000K and 1,718.750K	32,500 (10%)
Pawsey: Setonix GPU			16,000 (10%)
Pawsey: Setonix Q	1,000	837.500K	7,500 (10%)

Maximum requests

Resource requests for NCMAS are subject to a maximum limit. See table above. Starting this round, NCMAS allocation awarded to a successful application will not be more than 5 to 10% of the total allocation offered by a particular facility. Example: NCI NCMAS pool for 2027 is 350MSU. Hence an application will receive at the most up to 17.5MSU (5% of 350MSU) irrespective of what they originally requested for (could be 17.5MSU or higher). Applications requesting for more than maximum allocation for a facility, will be accepted and if successful, will not receive more than between 5 to 10% of set maximum allocation at each facility.

Justifying your resource request

Your resource request must be aligned with the scope of work for the 2027 calendar year, and justified and supported by the demonstrated scaling of your computational codes and your HPC Experience.

Note that allocation to any NCMAS applications will be determined by the NCMAS Scientific Advisory Committee (SAC), which may not match the request in the application.

Other application requirements

Incomplete applications

The NCMAS SAC will only assess **complete** applications. Incomplete applications will be deemed **ineligible**.

Word limits

There is no specific word limit.

Page limits

The combined PDF document for Category 1 application may be at the most three (3) pages.

And the combined PDF document for Category 2 application should be no more than fifteen (15) pages comprising of the specific splits for each category.

Application Category	Subcategory	Research Proposal Part (Maximum Page(s))	Computational Details Part (Maximum Page(s))	References Part (Maximum Page(s))
Category 1 - Minimal Resource Allocation	Minimal	1	1	1
	ECR	1	1	1
	SC	1	1	1
	Emeritus	1	1	1
Category 2 - Standard	-	5	5	5

Application due dates and submission

Applications must be submitted by the outlined due dates. Late submissions will **not** be accepted. **Submission is final** – no changes or corrections can be made to the application once submitted, except by supplying addenda for:

- Newly announced funding, or
- Additional information (as requested by the Administrative or Technical Reviewers)

Assessment Criteria, Scoring and Ranking

NCMAS applications will be scored on the following criteria:

1) Project quality and innovation

- Significance of the research.
- Advancement of knowledge through the goals of the proposed research.
- Originality, appropriateness and/or innovative nature of the computational framework.
- Potential for the research to contribute to current published Australian science, research and innovation priorities.

2) Investigator track records

- Research record and performance relative to the opportunity of the entire team, primarily through publications and research funding, and to a lesser extent via recognition and esteem metrics.

3) Computational feasibility

- Adequacy of the time commitment of investigators to undertake the research and utilise the resources efficiently and successfully.
- Suitability of the nominated system(s) to support the research, and the appropriate and efficient use of the system(s) by demonstrating scaling of the proposed codes on the nominated systems.
- Capacity to realise the 2027 calendar year goals of the project within the requested resources.
- Appropriate track record in the use of high-performance computing systems, relative to the scale of the resources requested. A technical assessment report will be made by NCI and Pawsey.

4) Benefit and impact

- Ability of the project to generate directly or indirectly impactful outcomes and/or produce innovative economic, environmental and social benefits to Australia and the international community.

Category 1 - MRA applications must address following criteria from above list:

- Project quality and innovation (40%)
- Investigators track records (20%) - only from data in the online form
- Benefit and impact (40%)

Category 2 - Standard applications must address following criteria from above list:

- Project quality and innovation (35%)
- Investigators track records (30%) - High performance computing research record and performance relative to the opportunity of the *entire team*, primarily through publications and research funding, and to a lesser extent via recognition and esteem metrics.
- Computational feasibility (25%)
- Benefit and impact (10%)

All applications will be scored out of 10. Following the proposal evaluation and scoring process, all applications will be ranked and assigned to one of five categories, designated **A through E**, according to their relative merit. The distribution of applications across categories will be determined as follows:

- **Category A:** Top 10 percent of applications
- **Category B:** Next 15 percent of applications
- **Category C:** Next 20 percent of applications
- **Category D:** Next 25 percent of applications
- **Category E:** Bottom 30 percent of applications

This categorisation is designed to provide a transparent, fair, and consistent grouping of applications into merit-based tiers, thereby supporting equitable allocation of computing facility resources and guiding subsequent review decisions.

Roles and responsibilities

Lead Chief Investigator (Lead CI)

- Leads and manages the project research team.
- Approves and submits the final application for the project in the NCMAS Application System, including managing team membership.
- Acts as an official point of contact between the project, the NCMAS Secretariat and the SAC.
- Provides a track record of research output and funding support in the NCMAS application.

Chief Investigator (CI)

- Supports the Lead CI in preparing the NCMAS application and managing the project.
- Provides a track record of research output and funding support for the NCMAS application.
- Can be promoted to a Delegated Lead CI role in cases where the Lead CI wishes to delegate project management responsibilities (see below).
- N.B. Cannot see the application in the NCMAS Application System until after submission.

Delegated Lead CI

- Appointed by the Lead CI to **actively manage a project and the NCMAS application**.
 - Expectation that the Lead CI will appoint a CI as Delegate.
- Responsibilities are those of the Lead CI.

Researcher

- Member of the project research team.
- A researcher's track record is not included for consideration in the NCMAS application.

Your Application - What to Include

1) Proposal and Computational Details

Proposal

The Proposal is the part of your application that describes your proposed research. It should focus on the [assessment criteria](#) of: 1) Project quality and innovation and 4) Benefit and impact.

- Provide sufficient background to clearly define the goals of the project for the calendar year of 2027.
- Emphasise the significance, impact and innovation of the research.
- Describe the significance and impact in the **scientific domain**.
- Describe the significance and impact on **society and industry partners** (if applicable).
- Be specific and concise.
 - Avoid general statements, such as "This research is significant to Australia".

For applicants with an existing NCMAS project, it is important to remember to ensure you update all scientific and technical components of the Proposal to reflect the proposed scope of work and methods for the calendar year of 2027.

Computational Details & References

In the Computational Details part of your application, you should focus on the [assessment criteria](#) of 3) Computational Feasibility and provide details on:

- Scalability of your code(s) **on each nominated facility**:
 - Use scalability tables and/or plots.
 - For software with **multi-node** capability, applicants must present data relative to **single node** performance, not **single core** performance.
 - Poor scaling may negatively impact the merit of the application.
- Compute job resources at each nominated facility:
 - Provide details on typical job configurations for your workflows, including
 - expected wall times,
 - number of nodes/cores,
 - data dependencies,
 - expected throughput, and so on.
 - Provide a summary of the resource requirements in the form of an "SU budget" for each request. This budget should list:
 - major steps in the project workflow(s),
 - the key methods/algorithms required, and
 - the SU requirements for each step.
 - Also, describe other dependencies such as software and storage.
- Storage at each nominated facility:
 - Describe data storage requirements and data life cycle for your project.
- Algorithms and Workflows:
 - Describe parallelism in your application(s) and how this relates to mathematical algorithms used. Describe data movement and lifecycle.
- Provide a clear justification for use of supercomputer resources:
 - This justification might elaborate on, for example, a requirement for large-scale parallel jobs, high-throughput workflows, or data-intensive workflows using large data sets.

- If previous resource usage at a facility has had low efficiencies, explain why, and describe your strategies to improve efficiency:
 - One example of inefficiency is an application with a large memory per core requirement. This can lead to underuse of reserved CPUs.
- For Setonix-Q applications, clearly state the need for access to QPUs and provide a brief summary of previous simulations or how the project will proceed from simulation to QPUs.

Proposal, Computational Details and References - Submission requirements

Proposal formatting follows general ARC conventions.

- Use plain English and comply with the proposal format and submission requirements.
- Use Australian English spelling.

All pages (uploaded in PDF form) must be as follows:

- Black type, or occasionally coloured type for highlighting purposes.
- White A4-size paper with at least 0.5 cm margin on each side, top and bottom.
- Text must be size 12-point Times New Roman or an equivalent size before converting to PDF format and must be legible to assessors.
 - Otherwise, a highly legible font type must be used, such as Arial, Courier, Palatine, or Helvetica, provided they are the same size as 12-point Times New Roman.
 - Variants such as mathematical typesetting languages may also be used.
- References can be in 10-point Times New Roman or a similar font.
- Applicants should note that colour graphs, colour photographs, detailed graphics, and grey-scale objects may be reproduced in black and white.
- The NCMAS Secretariat reserves the right to seek an original electronic copy of the Proposal to determine that the text meets these requirements.

2) Information on the project research team and prior HPC experience

As part of your application, you will also provide information on the expertise, background, and experience of the CIs in your research team. This will be considered by the SAC as part of their assessment of proposals, particularly in relation to the assessment criteria of 2) Investigator Track records (See Assessment Criteria, Scoring and Ranking section).

MyNCI

Relevant information will be collected through the MyNCI (<https://my.nci.org.au>) system and considered by SAC as part of your application. This includes information from the ORCID iD, Career and Publication Record tabs. **It is therefore critical that all CIs listed on the application must have a MyNCI profile and ensure this information is up to date** - see [Your Application – How to submit](#) for further information on steps required.

What is ORCID?

- ORCID is an independent non-profit organisation that provides a persistent identifier – an ORCID iD – that distinguishes you from other researchers, and a mechanism for linking your research outputs and activities to your iD. ORCID is integrated into

many systems used by publishers, funders, institutions, and other research-related services. Learn more at orcid.org.

- It is required to use ORCID to populate your researcher publication record on MyNCI for your NCMAS application – see [Your Application – How to submit](#).

Application Form free text fields

Prior HPC Experience: This part of the application is where you describe previous experience at HPC facilities and may be used by the SAC when assessing your proposal against criterion 3) Computational feasibility.

If you received an NCMAS grant for 2026, describe your successful use of the systems you received an allocation for and any challenges you overcame.

If you **did not** receive an NCMAS grant for 2026, describe your previous experience with HPC. Assessors expect to see:

1. a summary of your previous HPC experience,
2. Australian or international systems used,
3. experience with other resourcing/allocation schemes, e.g. facility Start-up or Partner schemes – demonstrate your expertise and capability, and
4. details of application codes, algorithms and workflows.

Underutilisation in 2026: Applicants with an existing NCMAS project are responsible for explaining any underutilisation in the previous year. **Unjustified underutilisation may impact negatively on the merit assessment of the application.** If your project has used less than 90% of your 2026 allocation at 2026 Q3 (pro rata), you should explain the underutilisation of your current allocation.

Please use the Utilisation of Current Allocation (optional) part of the application form to justify any underutilisation.

Your Application - How to Submit

The NCMAS online application system is managed by the NCMAS Secretariat and is hosted on NCI web infrastructure. All applicants (Lead CIs, Delegated Lead CI, CIs and Researchers) need to register for an NCI user account before starting an application.

Application Workflow

Submitting an NCMAS application is slightly different for new projects (and applicants) versus established projects. Please read the following sections carefully.

All Lead CIs, Delegated Lead CIs, CIs and Researchers are required to complete steps 1-3.

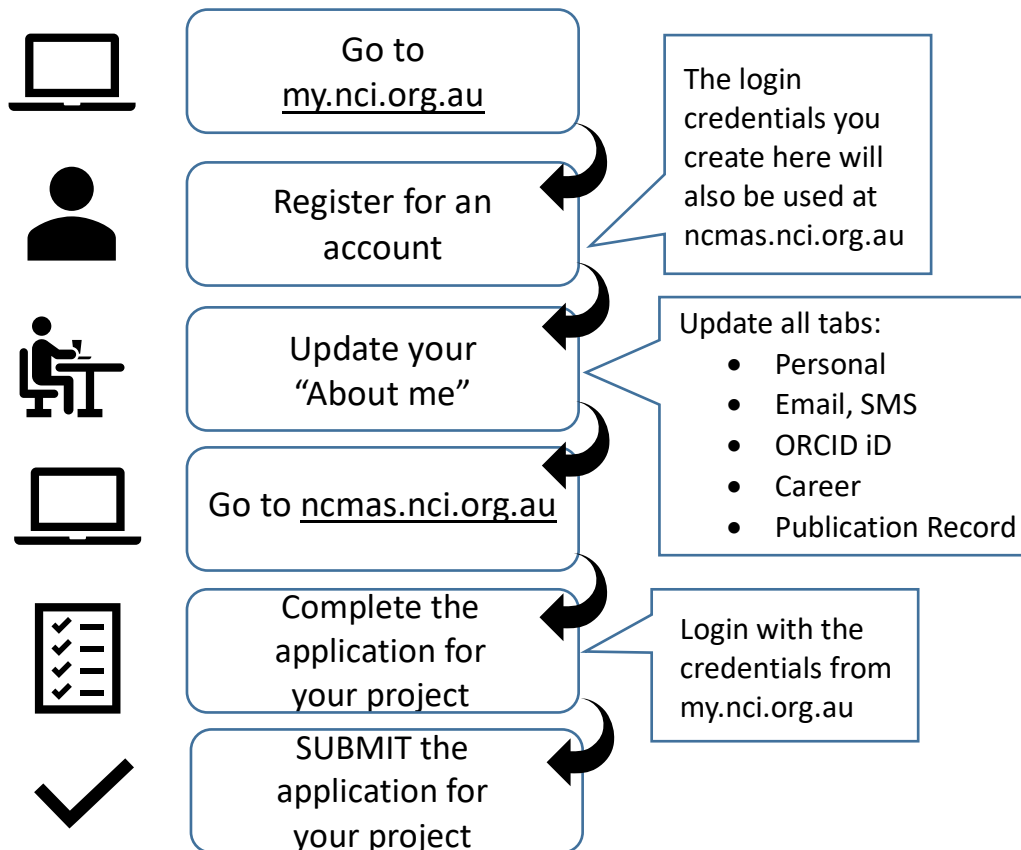
1. Open my.nci.org.au
2. Enter your MyNCI account details
 - a. Register for an account if you do not have one
3. Update your “**About me**”
 - a. Personal
 - b. Email, SMS
 - c. Career
 - d. ORCID iD
 - e. Publication Record

Only Lead CIs and Delegated Lead CIs are required to complete steps 4-7.

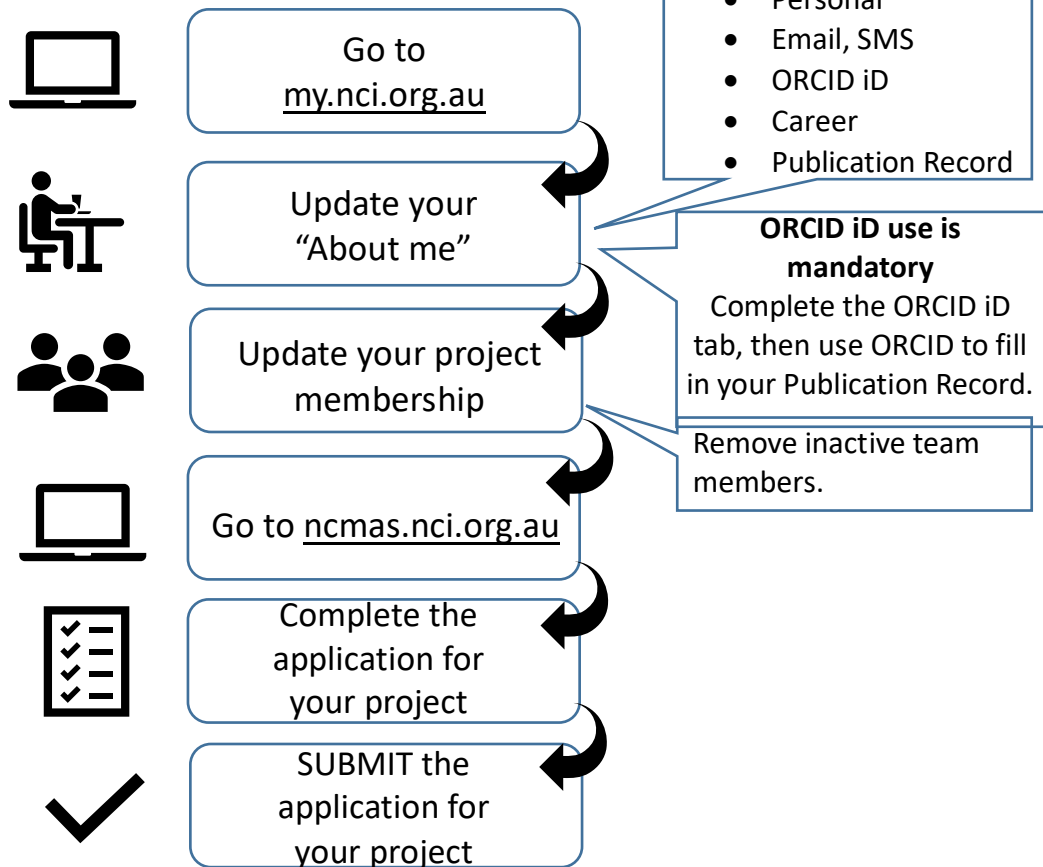
4. Open ncmas.nci.org.au
5. Open the My Application page
 - a. If required, log in with your MyNCI account
6. If you
 - a. **Have** an existing NCI project (from previous NCMAS grant or any other NCI scheme)
 - i. Find it in the list and click “Start application”
 - b. **Do not have** an existing NCI project (including if you have an active NCMAS allocation at Pawsey – but no allocation at NCI)
 - i. Click “Create a new project” and complete the form
 - ii. Return to the My Application page
 - iii. Find the new project in the list and click “Start application”
7. Complete and submit the application

When to use https://my.nci.org.au	When to use https://ncmas.nci.org.au
To register for a new user account	To complete your NCMAS application
To reset your account password	To submit your NCMAS application
To update ‘ About me ’ • Personal • Email, SMS • Career • ORCID iD • Publication Record	To submit addenda – if required
To approve requests to join a project (Lead CI or Delegated Lead CI only)	To view your NCMAS outcome (Lead CI only)
To remove a member of the project team (Lead CI or Delegated Lead CI only)	

New applicant/project – Lead CI workflow



Existing Project



Assessment of applications

Merit Assessment and Allocation Protocol - 2027 NCMAS SAC

Assessment of proposals will be based on a combination of technical and scientific merit (see [Assessment Criteria](#)) based on the material provided in the application. Assessment and resource allocation decisions are made by the SAC only. SAC is an independent peer-review committee. Committee members are appointed for a four-year term, with approximately half of the SAC being renewed every two years. A Deputy Chair (who becomes the next Chair), the Chair and Past Chair (who was the previous Chair) are each appointed for a two-year term from the SAC's membership.

- All applicants are expected to provide a detailed justification of the requested resources and are expected to demonstrate the capacity to utilise the requested HPC resources effectively and efficiently.
- All requests must be proportional to the scientific merit of the proposal. The SAC reserves the right to allocate all or part of the resources available, and all or part of any specific request.

The NCMAS Secretariat services are provided by NCI from its base at The Australian National University in Canberra. The NCMAS Secretariat and HPC facilities provide advice or supporting information to the SAC but are not otherwise involved in determining the merit of proposals and subsequent allocation of HPC resources.

Administrative Assessment and Technical Assessment

Before the Merit Assessment phase, each application goes through Administrative Assessment and Technical Assessment.

Administrative Assessment

Administrative Assessment specifically looks at the completeness, compliance and eligibility of an application as it is submitted. All applications are reviewed for compliance as soon as possible following the application deadline.

The NCMAS Secretariat manages this phase of assessment, with oversight from the SAC Chair.

- Potentially non-compliant applications will be referred to the SAC Chair for a final decision.
- The Secretariat will notify the Lead CIs of all applications confirmed as non-compliant as and when this is clear during different stages of assessments.

The Administrative Assessment does not provide feedback or advice on scientific or technical components of an application.

Important: Applicants will have to take the **utmost care that** their applications meet the necessary criteria and are compliant in every respect with these guidelines. There will be no opportunity for detection/correction once the application is submitted.

Technical Assessment

Nominated HPC facilities will assess each application for suitability/fit for their HPC systems in the Technical Assessment.

- A facility may contact an applicant for further information as part of the Technical Assessment.
- Technical assessments are provided by the facilities as advice to the SAC. The SAC may also recommend that an applicant consult a nominated facility for further technical advice during the merit assessment or after an allocation is awarded.

Successful Applicant Requirements and Conditions of Use

Acknowledging NCMAS

A condition of accepting an NCMAS allocation is that applicants acknowledge both NCMAS and the high-performance computing facilities that they have used in all publications and presentations of the associated work. The following is a standard acknowledgement template:

“This research was supported by the Australian Government's National Collaborative Research Infrastructure Strategy (NCRIS), with access to computational resources provided by the **<facility name/s>** through the National Computational Merit Allocation Scheme.”

Progress Report

If you are successful in your NCMAS 2027 application, you will be required to submit a Progress Report in Quarter 1 of 2028.

This document will describe research highlights and notable outcomes for your project in the calendar year 2027. This might include papers in high-impact journals, patents or other outcomes of impact and/or national benefit. Your Progress Report may be cited, with your consent, to promote the scheme and for NCRIS reporting.

Autonomous Sanctions, Defence Trade Controls Act, and Defence Strategic Goods List

All Lead CIs on NCMAS applications are required to certify (via a question in the application form) compliance of their project with Commonwealth legislation, particularly the Autonomous Sanctions Act (2011, Cth) and the Defence Trade Controls Act (2012, Cth). These articles of legislation impose additional requirements for supporting documentation and certification of project researchers in some circumstances. Applicants should review the current conditions of use on the websites of each of the participating HPC facilities:

- [National Computational Infrastructure \(NCI\)](#)
- [Pawsey Supercomputing Research Centre](#)

Compliance with Commonwealth legislation is managed through your institution's research office. Consult your research office if you have specific questions about Autonomous Sanctions or DTCA compliance.

Email Addresses

To ensure compliance with relevant Australian Government legislation, all researchers named in NCMAS applications must register and use an official institutional email address for all correspondence. All named researchers who currently use a non-institutional email address (for example, [@gmail.com](mailto:example@gmail.com) or [@yahoo.com](mailto:example@yahoo.com)) must register an official institutional email address. It is the responsibility of the project Lead CI to ensure that all project staff register and use official email addresses.

Unsuccessful Applicants – Alternative HPC Options

Facility partner schemes and start-up schemes offer an opportunity to supplement your NCMAS allocation or provide alternative access to HPC should your NCMAS application be unsuccessful. These schemes are well-suited to projects that are gaining experience and developing HPC capabilities. An application to a partner or start-up scheme will usually be less onerous than an application to a merit scheme, such as NCMAS. Partner schemes, in many cases, can allocate resources on a more flexible schedule to accommodate developing workflows.

Partner and start-up scheme allocations are determined by the Partner Scheme Manager for each partner. The Scheme Manager is the responsible allocation authority for the partner institution. Additional detail is provided in [Appendix – HPC Resourcing Alternatives](#).

Appeal Process

All decisions of the NCMAS SAC are final. Appeals will be considered only against administrative or procedural issues and not against decisions of the SAC or against assessor ratings and comments, in a manner consistent with the practices of the Australian Research Council.

Administrative appeals must be submitted by the project Lead CI, via email to ncmas-secretariat@anu.edu.au. The deadline for submission of an administrative appeal is **8:00pm AEDT / 5pm AWST Friday 29 January 2027**.

Administrative appeals will be considered by the SAC Chair, and the Deputy and Past Chair, and processed within twenty-eight (28) working days of the closing of the appeal period. Appellants will be notified of their outcome by email as soon as possible following a decision by the Chair.

The administrative appeal process is intended to:

- Determine whether administrative or procedural errors have occurred in NCMAS processes.

- Determine whether any such errors affected decision-making by the NCMAS Secretariat and/or SAC.

Key Dates, tips for completing your application and further support available

Key Dates

The NCMAS allocation process comprises the following stages:

1. Call for applications announced (Secretariat)
2. Applications accepted (Secretariat)
3. Administrative Assessment – Completeness, Eligibility and Compliance verification (Secretariat)
4. Technical Assessment (nominated Facilities and Secretariat)
5. Merit Assessment (SAC)
6. Allocation meetings (SAC, supported by Secretariat and Facilities)
7. Notification of outcomes (Secretariat).

Tips for successfully completing your application

The recommendations below are provided as general advice to help you improve your NCMAS application. These recommendations address questions received and the experiences of applicants, the Secretariat and the SAC in previous NCMAS calls. The NCMAS 2027 [FAQ page](#) may also provide information to help you complete your application.

- Read all NCMAS announcements and supporting documentation in full. Watch for updates from the NCMAS Secretariat throughout the Call for Applications period.
- Ensure that personal profiles and research track records of the Lead CI and all CIs on your application are fully up to date.
- Respect the length guidelines (for word count and degree of detail) for each question in the application form.
- Ensure your Proposal and Computational Details address the Assessment Criteria.
- Provide a comprehensive justification of your request for HPC resources.
- Provide compelling evidence for code performance and scaling in your application.
- Successful applications will demonstrate an ability to use the HPC facilities at scale, and leverage efficient multi-CPU jobs, data interconnects and high-performance storage.
- Cite only those research grants that are directly attributed to the Lead CI or CIs on the application.
 - Citing a grant on which the Lead CI or a CI from the project is not directly named is a breach of the rules. **This will disqualify your application.**
- Submit your application before the final submission deadline.
 - **Submission is final** – no changes or corrections can be made to the application once submitted, except by supplying addenda for:
 - Newly announced funding, or
 - Additional information as requested by Administrative or Technical Reviewers.
- Late submissions will not be accepted.

Further support available

- If you still have any questions after reading these Guidelines (Information for Applicants), please refer to additional [supporting documentation](#) including FAQs.
- Attend an information session, see the NCMAS website for details
- Contact ncmas@nci.org.au if you require support with your application.

NCMAS 2027 Applicant Checklist

Task	Notes	Done
Download and read -- <i>NCMAS 2027 Guidelines (Information for Applicants)</i>	This document contains important rules and guidelines for the 2027 call.	
All project members update contact information and career profiles at https://my.nci.org.au	Personal information for all team members should be up to date.	
Lead CI or Delegated Lead CI should update project personnel at https://my.nci.org.au	1. Add new team members 2. Remove members who will no longer contribute to the project	
Submit NCMAS application online at https://ncmas.nci.org.au	From 10 August 2026 12noon AEST / 10am AWST This is your NCMAS application. Draft versions of your application can be saved as needed. Early submission avoids the crunch at the deadline. Submit before 7:00pm AEST / 5:00pm AWST, Friday 2 October 2026. No Extension.	
Check NCMAS outcome at https://ncmas.nci.org.au	Outcomes will be posted on the NCMAS website by 18 Dec 2026.	

Appendix

HPC Resourcing Alternatives - Start-up and Introductory Schemes

Projects that are developing experience, or that require less than the minimum NCMAS allocation available on the national HPC facilities, should consider applying to a facility start-up scheme.

Scheme	Facility	Resources Available / Information	Email
NCI Adapter	NCI/ Gadi	https://opus.nci.org.au/x/VYA0Hw	help@nci.org.au
Pawsey Preparatory Access Scheme	Pawsey/ Setonix	The Preparatory Access Scheme is intended for researchers who need to: • port and benchmark their codes and workflows before applying to one of the merit allocation schemes, • generate scalability data to be included in the merit allocation schemes proposals. Preparatory Access projects are allocated a fixed allocation of 100 kSU for 3 months. Find out more at Preparatory Access Scheme.	help@pawsey.org.au

NCI/Gadi - Partner Schemes

NCI User Services (help@nci.org.au) can answer general questions about partner scheme eligibility and help you to contact scheme managers. Scheme eligibility generally depends on your home institution.

Pawsey/Setonix - Partner Schemes

Information about the Pawsey Partner Schemes can be found [here](#).

The Pawsey user support service (help@pawsey.org.au) can answer general questions about your eligibility and can provide guidance in obtaining resources for your project.

NCMAS Progress Report Template

All successful applicants must send in a **1/2 pages** report of the research done in the calendar year 2027 to ncmas-secretariat@anu.edu.au before close of business **31 March 2028**. Please use the following structure:

NCMAS Progress Report - 2027

1. Project Title

Clearly state the title of your research project.

2. Principal Investigator (PI) and Institution

- Name:
- Institution:
- Email:
- Project code:

3. Field(s) of Research

List the relevant Fields of Research (FoR) codes or areas.

4. Research Summary

A brief overview of the research project, its aims, and key questions addressed.

5. Use of NCMAS Grant

Describe how the NCMAS allocation was used (e.g., simulations, modelling, data analysis), and its importance to the project.

6. Scientific Impact

Summarise the outcomes and how the work has contributed to scientific advancement. Include societal or interdisciplinary benefits, if applicable.

7. Publications (if applicable)

- **Total number of publications:**
- **List of publications** (with journal names):
e.g., Smith et al., "Title", Journal Name, Year

8. Patents (if applicable)

List any patents that have resulted from this research.

9. Media appearance (if applicable)

List radio/tv/other media appearances discussing this research.

Notes:

- Report must be strictly 1-2 pages
- Reports may be used for reporting, impact assessment, or promotional purposes.

Errata

Page No.	Original	Fixed
----------	----------	-------