Deakin University

NCI Member Allocation Application Form

Section A: Administrative Summary

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| Lead Chief Investigator Information |
| Full Name:  |
| Email: | Mobile: | Landline: |
| Position: | Faculty/Division: |
| Project Code: |
| Project Title: |
| Existing account? Yes / No  | If Yes, NCI account: How long? |
| **Keywords** |
| Specify keywords applicable to your project (enter comma separated values) |
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| **ANZSRC Research Classifications** |
| Specify all ANZSRC Field of Research (FOR) codes relevant to the project. [FOR codes can be found here](http://nf.nci.org.au/accounts/documents/FOR.html) |
| FOR Code | Percentage | Description |
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| Specify all ANZSRC Socio-Economic Objective (SEO) codes relevant to the project. [SEO codes can be found here](http://nf.nci.org.au/accounts/documents/FOR.html) |
| SEO Code | Percentage | Description |
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| **Proposal Summary** |
| Summarise the aims, significance and expected outcomes of the project. (150 words maximum) |
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| Related Projects |
| If the Lead Chief Investigator is associated with other established or proposed projects under their existing NCMAS or DU-NCI allocation, list those projects and their relationship, if any, to this project. |
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| Academic Referees |
| **Note**: Only required if you are requesting 200,000 SU or more.Nominate academic referee for this proposal; include an email address for the referee. |
| RefereeName:  |
| Email: |
| Institution: |
| Position: | Faculty/Division: |

Section B: Publications & Research Funding

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| Summary of Research Support |
| For each CI, provide a summary of all recent research support. This should include current grants and all funding granted in the past three (3) years. If the funding body does not issue an ID for its grants, enter a distinct ID prefixed with "NA" for each such grant. If you specify OTHER as the funding body, give details of the funding body in the Project Title column. |
| Investigators: |
| Project Title: |
| Grant ID: | Funding Body 1: | Funding Body 2: |
| Total Grant (AUD): | Initial Quarter: | Final Quarter:  |
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| Investigators: |
| Project Title: |
| Grant ID: | Funding Body 1: | Funding Body 2: |
| Total Grant (AUD): | Initial Quarter: | Final Quarter:  |
| **Research Track Record** |
| For each CI, provide a list of refereed publication for the past five (5) years, from 2008 to the present year. Publications relevant to the research area of this proposal should be marked with an asterisk (\*). Repeat table for each CI.  |
| Investigator: |  |
| Books: |  |
| Book Chapters: |  |
| Referees Journal Articles: |  |
| Refereed Conference Publications: |  |
| Awards, Honours, Prizes: |  |
| Career H-Index: |  |
| Number of citations over full career: |  |
| H-Index relevant to papers published in the past 5 years: |  |
| Number of citations relevant to papers published in the past 5 years: |  |
| Method used to obtain citation data, e.g. Web of Knowledge, Google Scholar, Scopus: |  |
| **Research Contributions and Experience** |
| Describe the most significant research contributions over your career, your impact on your research field over the past 10 years, and a brief statement of your computational expertise and experience. (150 words maximum) |
| Position: |
| The year in which you achieved your PhD: |
| The percentage of time available to you in your professional work for research, averaged over the past five years (2008 to the current year): |

Section C: Research Proposal

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| Research Proposal |
| Describe the research to be supported. Provide sufficient background detail to clearly define the goals of the project. Emphasise the significance, impact and innovation of the research.The required length of the proposal will depend on the allocation requested. This change is intended to a) help the Deakin Allocation Committee more rigorously assess larger requests, and b) simplify the applications procedure for smaller requests. It will also allow collections of researchers to include multiple projects in a single application. The maximum length of a proposal will depend on the number of Service Unit (SU) equivalents requested (see table). Keeping in mind there is a limit of 650 KSU available to allocate each quarter. 200,000 (200 KSU) 500 words (2 pages)Less than 100,000 (< 100 KSU) 250 words (1 page) |
| *Box will expand to accommodate appropriate length of proposal.*   |
| Research Impact  |
| Does the research focus on a topic of outcome that aligns with Deakin’s strategic research goals? Describe the potential for your project to contribute to the associated Priority Goals. (100 words maximum) |
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**Section D: Resource Requirements**

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| **Service Units (SU) required at each facility** |
| Service UnitsCompute time allocations are made in Service Units (SU) which reflects both the time used and the priority at which it is used. For normal use, a Service Unit (SU) corresponds to one hour of elapsed time on one processor core of the system. Allocations are split into (up to) four quarterly sub-allocations. Allocations unused at the end of a quarter are lost, though consideration will be given to carrying unused allocations forward and adjusting quarterly allocations in some circumstances.Nearline DataData quantities are to be specified as the total archive data storage required in each of the quarters. For example if a total of 10 Gbyte of data is to be stored in the first of the 3 month periods and then effectively no files stored or removed, enter 10 in each of the fields. Minimum FeasibleIndicate the minimum allocations below which the project would not be feasible on the requested resource (show the total for over all the quarters - enter an integer value only) |
| **National Computational Infrastructure** |
| Resource | 2014.Q1 | 2014.Q2 | 2014.Q3 | 2014.Q4 | Minimum feasible |
| NCI Raijin (SU) |  |  |  |  |  |
| NCI MassData (GB) |  |  |  |  |  |
| **Justification of SU Request** |
| Explain your request from a technical viewpoint, and in the context of the research objectives. (100 words maximum) |
| Position: |
| **Justification of Data Storage Request** |
| Explain your request from a technical viewpoint, and in the context of the research objectives. (100 words maximum) |
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| **Justification of High-Performance Computing Capabilities** |
| Describe how high-performance computing capabilities available through NCMAS, such as distributed computation, large memory, storage, software, datasets, and so on, are critical for your project. (100 words maximum) |
| Position: |
| **Algorithms, Software, Workflows** |
| Describe the algorithms and types of calculations to be used. If you primarily use package software, please give details of any software licencing requirements. (100 words maximum) |
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| **Computational Details** |
| Allocation to NCI is intended for HPC that scales, If your requirements are for predominantly single processor jobs we would encourage you to use the NeCTAR Research Cloud (RC). |
| A table of wall time versus number of processors used for a typical problem, as evidence that the problem scales effectively with the number of processors up to the number intended to be used. |
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| Do you expect to use a large number of single processor jobs (or parallel jobs which could alternatively be run as an ensemble of single processor jobs)? |
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| **Software Requirements** |
| Nominate any third-party software that is essential to the project that is not currently available at NCI. Investigators should complete an NCI Software Request form to register a request for each new third-party software package required. |
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| **Other Requirements** |
| Describe any special requirements for the project, for example, extraordinary disk requirements for running jobs, job prioritization, and so on. Note that substantial usage at high priority without explanation may result in an adjustment to unused and future allocations. |
| Position: |
| Do you require specialized advice or assistance to improve application performance or your computational work flow? Describe any aspects of system configuration and management that might adversely affect your work. |
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Section E: Research Approvals

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| Research Proposal |
| Supervisor(for Student Researcher) |  | Date: |
| Associate Head of School (Research)(or equivalent) |  | Date: |