General-Purpose PC farm application form

This application form is exclusively for the General-Purpose PC farm. You cannot use it to apply for the other categories such as XC50 or GRAPE/GPU.

1 Significance and objective of your research

Describe the significance and objective of your research. Clarify the background, scientific goal, and originality of your approach.

Provide the bibliographic information for the references cited in Section 1, 2, 3 in Section 4. The format of the bibliography and how to cite them in the text should follow the AAS Journals. Examples of in-text citations: “There are several TNOs with perihelion distance greater than 45 au that have clearly experienced planetary scattering [1], and we need to examine the results of a larger range of observations to verify them [e.g. 2, 3].” The above examples show citations by reference number, but citations in author+year format such as “(Grav et al. 2011; Boe et al. 2019)” are also acceptable.

The \LaTeX\ version of the application form requires BibLaTeX in order to create the list of references (note that you will need to prepare the necessary environment to run BibLaTeX). Follow the instructions in the 00README.txt file. Make sure that the amount of text does not exceed the page limit for each section.

(The amount of description should not exceed one page)
2 Research plan and methods

Summarize your research plan and methods here. Describe the specific outcomes that you expect to achieve during this fiscal year (ending in March). If there are any new or unique perspectives on your research methods, specify them as well. The format of the citation must follow the instruction specified in Section 1.

(The amount of description should not exceed one page)
3 Preparation of computational code

(§3.1 and §3.2 combined, do not exceed one page.)

3.1 Development and optimization of computational codes

Applications in General-Purpose PC farm do not require any descriptions of this section.

3.2 Estimate of the amount of required computing resources

Describe the estimated amount of computing resources required to carry out your proposal (number of nodes, number of CPU cores, amount of memory, the time required for one model calculation, the total calculation time for all the model calculations, etc.).

(The amount of description should not exceed one page)
4 References cited in Sections 1–3

List the references cited in Sections 1–3. Your own research achievement must be listed in Section 5. However, if any of them are cited in Sections 1–3, they should also be listed in this section.


(The amount of description should not exceed one page)
5 Research results you have achieved so far

If you have previous experience of using CfCA’s open-use computational facilities, list the publications resulting from the activity.

- List only the publications of your own research results. Do not bring references from other people’s research that you cited in Sections 1, 2, or 3.
- List separately the results you have obtained primarily through the use of CfCA’s open-use computing facilities (Section 5.1) and those obtained through the use of computing facilities at other institutions (Section 5.2).
- Provide as much detail as possible on the bibliographic information in the literature. Do not abbreviate the volume number or page numbers.
- Include the specific names of the equipment and resources you used.
- The applicant’s name should be written in bold in the list of authors.
- Use “et al.” or other abbreviations as appropriate when there are many authors.

Here are some examples.

5.1 Publications achieved through the use of CfCA’s facilities


5.2 Publications achieved through the use of other facilities


(The amount of description should not exceed one page)