

LinkSCEEM/Cy-Tera Production 2013

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SAMPLE

Production Access Application

This form is provided as a sample for you to see what you are expected to include in your submission. You are not permitted to submit this form. An identical form is available for you to submit once you register and sign in.

Required fields are shown in red.

A primary goal of the LinkSCEEM and Cy-Tera projects is to encourage and increase the use of regional high performance computing resources as a scientific tool. This application for **production access** is intended for all those who wish to exploit the possibilities provided by of these technologies in their research.

- Applications are encouraged from all scientific fields
- The purpose of this application process is to provide computational resources to the most deserving projects (as determined by scientific peer review)
- Applications undergo a technical review, to ensure the project is feasible on the systems available, and also a scientific peer review that helps determine the division of resources
- The affiliation of the project leader should be situated in an Eastern Mediterranean country

The proposals must conform to the following **technical criteria**:

- Proposals should prove the need to run on a LinkSCEEM-2 HPC system.
- Both available systems are an HPC cluster architecture with Infiniband interconnect. GPU resources are available at one site. The codes necessary for the project must be available for the system requested and/or, in case of codes developed by the applicants, they should have been sufficiently tested for efficiency, scalability, and suitability (either via proposals for preparatory access or in systems similar to the LinkSCEEM-2 systems).
- The project proposed should be suitable to run on the architecture requested. The technical assessment may redirect projects to a more appropriate machine.

Proposals must fulfil the following **scientific criteria**:

- The research proposed in the project must demonstrate scientific excellence.
- Proposals should be novel, well integrated in the context of the call and timely.
- The project should aim to develop an important scientific topic of major relevance to Eastern Mediterranean and worldwide research.
- The methodology used should be appropriate to achieve the goals of the project.
- It is advisable that within the project appropriate methods and resources for dissemination and knowledge exchange are identified.
- There must be a solid management structure which will ensure that the project will be successfully completed.

Please fill out the form to the best of your ability: the more information you provide, the better LinkSCEEM/Cy-Tera can address your needs. Applicants should ensure that they have carefully read the latest version of the Guidelines for Applicants document which can be found [here on the LinkSCEEM webpage](#).

Please direct any queries regarding the application form and process to proposals-support@linksceem.eu.

Title

Please enter the title of your research project here

PLEASE ENTER THE TITLE OF YOUR RESEARCH PROJECT HERE.

Please use standard title capitalization, neither ALL CAPS nor all lower case.

Title

Research Field

Research field?

Other/Specific Field:

Principal Investigator (personal data and contact) Information

Please insert personal data and contact details **as they appear on your passport**.

The Principal Investigator should be a senior researcher (at least 3 years of research experience).

People entered here will be given access to the submission like the original submitter.

Import your contact info here?

Title

First/Given Names & MI

Last/Family Name

Email

Company/Institution 

Department

Professional Title

Address 1

Address 2

City

State/Province

Postal Code

Country

Primary Telephone

Alternate Telephone

Fax

Website

Primary Work Location (Country or Region)

Contact Person Information

Contact person for all correspondence. Please confirm the correctness of the email address used here!

People entered here will be given access to the submission like the original submitter.

Import your contact info here?

First/Given Names & MI

Last/Family Name

Email

Company/Institution 

Website

Primary Work Location (Country or Region)

Collaborator Information

List of authors, excluding yourself, in the correct order, exactly as you would like them to appear in future correspondence. Please, double check spelling, names & email addresses, etc.

People entered here will be given access to the submission like the original submitter.

Add a Collaborator?

Summary of the project

If the project is successful this will be published on the LinkSCEEM-2/Cy-Tera website unless you mark it as confidential below. Please make this summary understandable to a general audience. (300 words)

Summary of the project (Maximum 300 words)

0 words

1.1: How you heard of LinkSCEEM/Cy-Tera

We would like to track how people heard about the Call for Proposals and their previous experience with the project.

How did you hear about the LinkSCEEM/Cy-Tera Call for Proposals?

- Workshop or training event Colleague
 Mailing list Conference
 Website Other:

Have you or one of your collaborators ever attended a LinkSCEEM or Cy-Tera workshop or training event?

- Yes No

1.2: Application and software details

For all codes to be used in the project, please provide the details listed below.

1. Name and version.
2. Webpage and/or contact information of the code developers.
3. Licensing model (open source, academic, commercial,...).
4. Your relationship to the code (developer, collaborator to main developers, end user, etc.).
5. Any software dependencies (such as special compilers, libraries, software applications, etc.)

If the code is 'home-grown', this should also describe the main algorithms, how they have been implemented and parallelized, and their main performance bottlenecks and the solutions to the performance issues you have considered.

performance issues you have considered.

1.2: Application and software details (Maximum 500 words)

0 words

1.3: Enabling/optimization work required

Describe the application enabling/optimization work that needs to be completed before production runs can begin.

This may include factors such as, for example:

- Port application to architecture
- Testing and benchmarking
- Performance analysis
- Improve I/O
- Reduce global communication

Please make it clear what work will need to be done by your own group and what you are requesting to be done by LinkSCEEM-2/Cy-Tera staff.

Please also make it clear if any enabling work can be done in parallel with production runs.

1.3: Enabling/optimization work required (Maximum 300 words)

0 words

1.4: Data Resources Requested

Total storage required (in Gbytes, 1024 is the project default) (only available during the duration of the project)

Maximum number of files to be stored during the granting period

Amount of data to be transferred to/from the production system (total amount in Gbytes, default is 1024)

Describe your strategy concerning the handling of data:

- Justification for the data storage request (above the system defaults)
- Transfer of data to/from the production system
- Pre/post processing
- Retrieval of relevant data for long-time storage after the end of the project to the applicant's local system is necessary as data storage is only possible during the duration of the project.

Please also take into account the middleware requirements (UNICODE, REGEX, CidFTP, etc.) in your

Please also take into account the middleware requirements (UNICORE, DESML, GRIDFTP, etc.) in your answers. Remember to take into account the limits set forth by the "Technical requirements and limitations of HPC sites" document which can be found in the following link:

<http://www.linksceem.eu/ls2/user-resources/documents-n-templates.html>

1.5: Job Resources Requested

Wall clock time of a typical run

Number of jobs that can run simultaneously; i.e., do not depend on each other

Expected number of cores

Maximum memory per core needed (in MBytes)

I/O intensive?

Please describe your strategy concerning:

- I/O (for example usage of I/O libraries, MPI I/O, netcdf, HDF5 or other approaches) if your application is I/O intensive
- Checkpointing/restarting if the wall clock time of a typical run is greater than 24 hours (single jobs of greater than 24 hours duration are not supported on the systems)

1.6: Core-Hour Resources Requested

Here we ask for the amount of core hours that you are requesting for your project. These are divided into 2 categories: CPU core-hours and GPU core-hours. You need to justify the number you input here in your detailed description of the project (at the end of this form). **At least one of the entries must be completed.**

Total number of CPU core-hours requested

Total number of GPU device-hours requested

2 1· Bibliographic References

2.1: Bibliographic References

Declare recent bibliographic references, if available, that are relevant to the project.

2.1: Bibliographic References (Maximum 300 words)

0 words

2.2: Discuss the methods that you will use for dissemination of the project

Discuss the methods that you will use for dissemination of the project and for any appropriate knowledge transfer. This should include any resources that you will be using to support this.

2.2: Discuss the methods that you will use for dissemination of the project
(Maximum 500 words)

0 words

2.3: Confidentiality

Is any part of the project covered by confidentiality? If YES, please give the reasons for confidentiality. If not, just type "NO".

2.3: Confidentiality

0 words

2.4: Other support

Do you have any other support for this application e.g. from your national funding council, the EC or international collaborations? Please give details of this below.

2.4: Other support

0 words



2.5: Reviewers

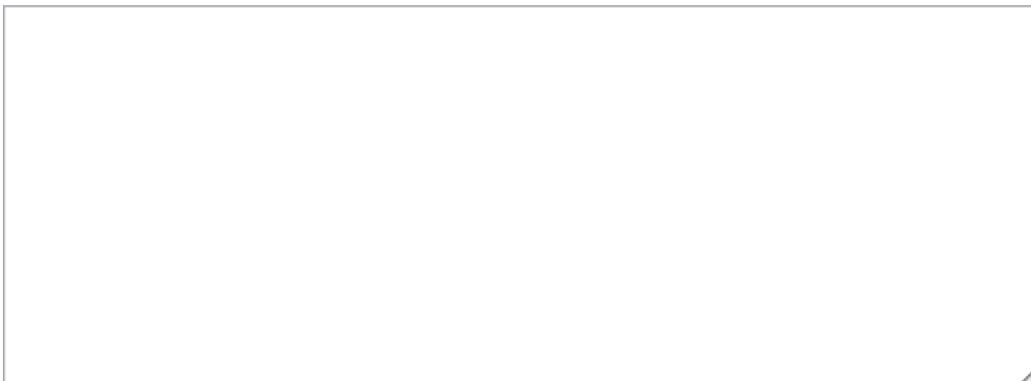
If you wish, you can nominate up to three reviewers to assess your proposal. Please note that the reviewers you nominate should not be a member of your research group or a member of a group with whom you work on a regular basis. LinkSCEEM-2 may use one of these nominees to review your proposal but there is no guarantee that any of the nominees you indicate will be used.

Please give the names, position, affiliations and e-mail addresses of the nominated reviewers.

Use one line per reviewer stating: name;email;position; affiliation

2.5: Reviewers (Maximum 300 words)

0 words



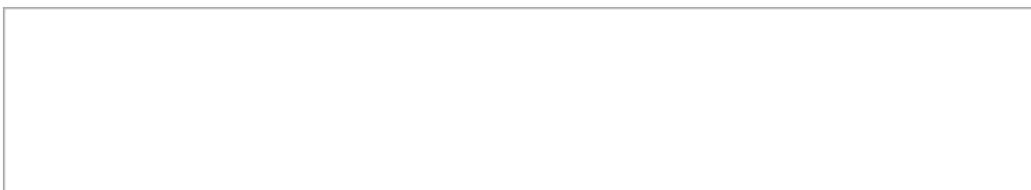
2.6: Previous LinkSCEEM or Cy-Tera projects

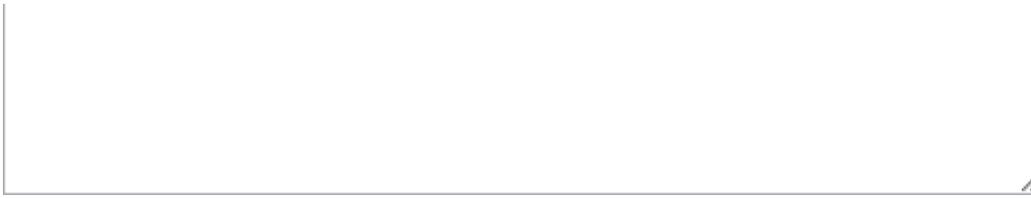
Have you or any of your listed collaborators been involved in a previous (or current) project on LinkSCEEM or Cy-Tera systems? If so, can you please list the project code(s) and indicate whether or not the current project is an extension of that project.

Please note, final reports **MUST** be submitted for each completed project (even if an extension is requested), failure to do this may result in the disqualification of the current application. The template for the final report can be found [here on the LinkSCEEM webpage](#).

2.6: Previous LinkSCEEM or Cy-Tera projects (Maximum 200 words)

0 words





2.7: Detailed description

The template document required for this section is available, in .rtf format, to [download here](#).

Please use this section to give a detailed description of the project and kindly provide of the order of 3-4 pages, including:

1. scientific objectives
2. scientific and technical innovation potential
3. requested core-hour resources and clarification of how this figure was calculated
4. performance of code(s), including scalability, I/O, are jobs independent, chained and/or workflows, etc.
5. computational objectives
6. summary

Please remember that the upper range of resources given to projects in this type of call are of the order of 100,000 to 200,000 core hours. Requests greatly in excess of this are unlikely to be fully resourced (although exceptional projects may be awarded additional resources).

Kindly remember when you upload the document to provide a version in **.pdf format**

2.7: Detailed description

No file chosen