

**PROJECT STATUS SUMMARY**

*(Must not exceed 1 page)*

**Title (80 characters max; strictly enforced):** Text

**PI and Co-PI(s):** Text

**Applying Institution/Organization:** Text

**Resource Name(s) and Number of Node Hours Requested:** Text

**Amount of Storage Requested:** Text

**Status Summary (May use the remainder of page):**

Briefly summarize the goals of the project. It is unnecessary to repeat the executive summary from the original proposal. The project status summary should include an overview of the achievements to date. Industry organizations should also summarize the economic or strategic business impact of the accomplishments to date.

Insert paragraph(s).

**RENEWAL NARRATIVE (THE NARRATIVE SHOULD NOT EXCEED 14 PAGES)**

Visual materials, such as charts, graphs, pictures, etc., are included in the 14-page limit. References do **not** count toward the 14-page limit and should be after the Renewal Narrative. URLs that provide information related to the proposal should not be included. **The 14-page limit will be strictly enforced.** The Renewal Narrative should address the following points:

**PROJECT ACHIEVEMENTS**

The project achievements should address the points described below. **This section is typically about 10 pages.**

Insert paragraph(s).

**SIGNIFICANCE OF ACCOMPLISHMENTS TO DATE**

Explain what advances you accomplished through the INCITE award (impact on community paradigms, valuable insights into or solving a long-standing challenge, etc.). Place the proposed research in the context of competing work in your discipline or business. Reiterate the milestones of your proposal and discuss the accomplishments (planned or unplanned) achieved this year relative to those milestones and allocation use (Section 1.a.ii). Summarize the impact of the results achieved: What conclusions can be drawn, and what is solved because of these results? What new and follow-on investigations have these results motivated?

Insert paragraph(s).

**ALLOCATION USE**

Summarize your project's allocation use to date this year: percent of allocated node-hours used on each platform, job size distribution, number of users, etc. Associate the resource use with particular results where possible. Also summarize your project's projected use from now until the end of December (i.e., end of current allocation year): anticipated percent of allocated node-hours used on each platform, job size distribution, etc. Associate this resource usage with anticipated results. Do you expect your usage to be evenly distributed throughout the remainder of this year? If not, explain.

Insert paragraph(s).

**APPLICATION PARALLEL PERFORMANCE**

Summarize the performance (percent of peak, scalability) of your project's simulation tools used in the allocations this year. What progress was made in improving the application's performance on this architecture? What challenges (if any) remain? List the technical risks and challenges that were confronted by your project (overcome or not) this year. Were they anticipated?

Insert paragraph(s).

**Heading 3 (Optional)**

Insert paragraph(s).

## **DATA STORAGE**

What is the current cumulative size of stored data? What is your projection for the cumulative size of stored data at the end of the project? What tools and/or plans do you have to reduce the data? To share the data?

Insert paragraph(s).

## **PROJECT PLANS FOR NEXT YEAR**

The project plans should address the points described below. **This section is typically about 4 pages.**

Insert paragraph(s).

## **SUMMARIZE THE PROJECT PLANS**

Briefly explain what advances you expect to accomplish through the next award period and associate these with the overarching goals of your project. Clearly explain the relationships between the milestones, planned production simulations, and expected compute time required for these sets of simulations. Explain any change in the scope of the project (research objectives, computational approach, personnel, etc.) relative to the plans and approach articulated in the original proposal. If resource requirements differ from those of the previous year, provide details on the differences (platform, increased/decreased node-hours, file system and archival storage, networking) and the reasons for them. If you are requesting a new resource, you must provide evidence that your project is optimized to run on that resource. See the “New Code Applications” section below. Summarize the requirements that are driving the differences and what science/technology outcomes are expected. Significant changes to the original project scope should be discussed with the INCITE program manager prior to submittal.

Insert paragraph(s).

### **Heading 3 (optional)**

Insert paragraph(s).

## **DEVELOPMENTAL WORK**

Describe what, if any, developmental work has been carried out and the outcome of this work. Describe what additional development work will be executed and when. Provide an estimate for the percentage of project time you will spend on developmental computing (e.g., porting, performance analysis) and other nonproduction runs.

Insert paragraph(s).

## **NEW CODE APPLICATIONS (WHERE RELEVANT)**

Are you planning to use any new production codes next year that were not included in your original proposal? Or are you proposing use of a new resource not included in your original proposal? If so, provide direct evidence, including supporting quantitative data, for your production application’s parallel performance for the intended research simulations. Ideally the proposing team will have generated the data. If you cite work by others, explain why it is applicable here. You should use the application code you intend for the production work, not a related code. Data for sample systems not related to the intended research is undesirable. Performance benchmarking should reflect all I/O requirements. Parallel

performance data in either strong or weak scaling mode *must* be provided. Explain how the strong or weak scaling applies to the proposed work. For data analytics or AI work, a description of the compute, memory, networking, and storage needs in the context of the LCF resources will help reviewers understand the strong or weak scaling characteristics.

NOTE: You may apply for a startup account at one of the centers to conduct performance studies.

Applications are available at

ALCF: <https://www.alcf.anl.gov/science/directors-discretionary-allocation-program>

OLCF: <https://my.olcf.ornl.gov/project-application-new>

Insert paragraph(s).

If included, call out equations, tables, figures, and references in numerical order in text, such as Eqs. (1) and (2), Table 1, and Fig. 1 below.

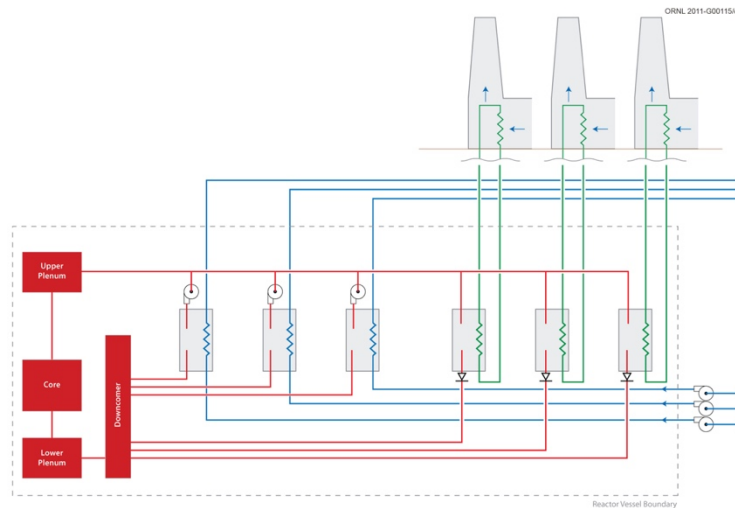
$$\partial_t \phi + u \cdot \nabla \phi = \nabla^2 \phi + \frac{1}{\tau} R(\phi), \tag{1}$$

$$\frac{\partial \phi}{\nabla \phi} = \frac{1}{2} \nabla^2 \phi \frac{e^{-2u}}{(2\tau)^{3N/2}} \sqrt{xyz} \sum_{1+23} . \tag{2}$$

**Table 1. Table title**

Column one	Column two	Column three	Column four
xxx	xxx <sup>a</sup>	xxx	xxx
xxx	xxx	xxx	xxx

<sup>a</sup>Footnote here.



**Fig. 1. Figure caption.**

Proposal Title

Lead PI

**REFERENCES (optional; not included in the page count)**

References must be single-column format, 11 point, Arial or Times New Roman.

**[Refer to the guidelines for instructions in preparing the proposal. Table does not count toward project narrative page limit.]**

**Proposal Title (exactly as it appears on submission):** Insert Text

<b>Year 1</b>		<b>Total number of node-hours for Year 1: <i>Insert Text</i></b>	
<b>Milestone:</b>	<b>Details (as appropriate):</b>	<b>Dates:</b>	<b>Status: (renewals only)</b>
Insert Text	<b>Resource:</b> Insert Text <b>Node-hours:</b> Insert Text <b>Production size runs (number of nodes):</b> Insert Text <b>Filesystem storage (TB and dates):</b> Insert Text <b>Archival storage (TB and dates):</b> Insert Text <b>Software Application:</b> Insert Text <b>Tasks:</b> Insert Text <b>Dependencies:</b> Insert Text	<i>Insert Text</i>	Insert Text
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<b>Year 2 (if appropriate)</b>		<b>Total number of node-hours for Year 2: <i>Insert Text</i></b>	
Insert Text	<b>Resource:</b> Insert Text <b>Node-hours:</b> Insert Text <b>Production size runs (number of nodes):</b> Insert Text <b>Filesystem storage (TB and dates):</b> Insert Text <b>Archival storage (TB and dates):</b> Insert Text <b>Software Application:</b> Insert Text <b>Tasks:</b> Insert Text <b>Dependencies:</b> Insert Text	Insert Text	Insert Text
<b>Year 3 (if appropriate)</b>		<b>Total number of node-hours for Year 3: <i>Insert Text</i></b>	
Insert Text	<b>Resource:</b> Insert Text <b>Node-hours:</b> Insert Text <b>Production size runs (number of nodes):</b> Insert Text <b>Filesystem storage (TB and dates):</b> Insert Text <b>Archival storage (TB and dates):</b> Insert Text <b>Software Application:</b> Insert Text <b>Tasks:</b> Insert Text <b>Dependencies:</b> Insert Text	Insert Text	Insert Text

**PUBLICATIONS RESULTING FROM INCITE AWARDS**

*(Does not count toward project narrative page limit.)*

Provide a list of publications, **including DOIs when available**, resulting from previous INCITE awards to this project team for work related to the proposal under consideration. Only those publications that include an acknowledgement to INCITE and/or the LCF may be included. This list may **not** be used in lieu of references in the project narrative. If applicable, list the citation both here and in the project narrative.

References must be single-column format, 11 point, Arial or Times New Roman.

**Curriculum Vitae (2-page limit)**  
**PI NAME**  
**Contact Information**

**PROFESSIONAL PREPARATION**

PhD  
MS  
BS

**APPOINTMENTS**

2010–present  
2001–2010  
1990–2001

**FIVE PUBLICATIONS MOST RELEVANT TO THIS PROPOSAL**

1. Publication most relevant to this proposal
2. Publication most relevant to this proposal
3. Publication most relevant to this proposal
4. Publication most relevant to this proposal
5. Publication most relevant to this proposal

**RESEARCH INTERESTS AND EXPERTISE**

Insert paragraph(s).

**SYNERGISTIC ACTIVITIES**

1. Text
2. Text
3. Text
4. Text
5. Text

**COLLABORATORS (PAST 5 YEARS INCLUDING NAME AND CURRENT INSTITUTION)**

Collaborator name, current institution  
Collaborator name, current institution