

# Director's Discretionary (DD) Allocation Review Form

Reviewer: \_\_\_\_\_

Proposal Title: \_\_\_\_\_

PI: \_\_\_\_\_

## 1. Project Classification

- a. If the project request includes a project role, does the project role selected (leadership computing preparation, strategic partnerships, application performance and data analytics) match the stated project objectives and goals? If not, why?

## 2. Application Readiness

- a. Comment on the reasonableness and appropriateness of the proposed request for high-end (terascale, petascale) computational resources.

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865-241-4011 or [accounts@ccs.ornl.gov](mailto:accounts@ccs.ornl.gov)

**b.** Discuss the technical readiness of the project, including: Are the codes ready to run? Have they been optimized for the resources requested? Do the computation and I/O scale well? Have the applicant(s) presented evidence they can effectively perform single simulations using a major fraction of the system requested?

<b>c.</b> What best describes the computational readiness of this project?	Ready	Not Ready
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**d.** Provide a justification for the selection. Also please identify any issues that need to be resolved if you have identified the project as not ready.

### 3. Scientific and/or technical merit of the project

*(Give an overall rating: 1 = lowest 5 = highest)*

1            2            3            4            5

**a.** What important problem does this application address and what is the likelihood that it can make high-impact scientific or technical advances in its field through the use of a large allocation of high-end computing resources?

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b. How does the proposed research compare with other research in its field and related disciplines, both in terms of scientific and/or technical merit and originality?

c. What is the broader impact of the proposed simulation(s)?

#### 4. Appropriateness of the proposed method or approach

*(Give an overall rating: 1 = lowest 5 = highest)*

1            2            3            4            5

a. Are the conceptual framework, methods, and analyses adequately developed and likely to lead to scientifically valid conclusions?

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- b. Does this proposed research make use of the best available mathematical algorithms, computer science methods, and state-of-the-art data management and visualization techniques?

### 5. Competency of the personnel

(Give an overall rating: 1 = lowest 5 = highest)

1            2            3            4            5

- a. Comment on the qualifications of the principal investigator and other key personnel to successfully execute this project.

### 6. Reasonableness & appropriateness of the proposed request for computational resources

(Give an overall rating: 1 = lowest 5 = highest)

1            2            3            4            5

- a. Assess the reasonableness of the estimates of the required computational resources. Where appropriate, suggest revised allocation amounts.

Number of processors:

Duration of project:

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- b. If the request is for multiple resources, comment on the merit of multiple allocations.

### 7. Recommendation

Allocation of NCCS Leadership Computing Facility resources are issued under a competitive process designed to ensure maximum potential impact of the work being carried out at the center. The LCF model is to work closely with a select group of projects; limiting the number of proposals that can or should be accepted.

a.	In your opinion, should this proposal be approved?	YES	NO
b.	Does it rank in the top quartile of current or proposed research activities at the LCF?	YES	NO

**Additional comments and suggestions are encouraged.**

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