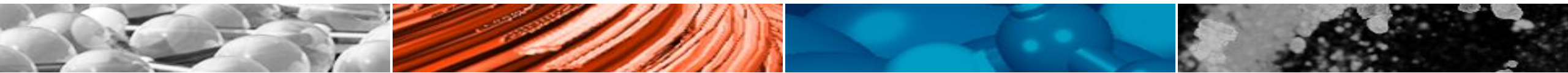




2027 INCITE Proposal Writing Webinar



Our presentation will begin at 10:00 am EDT / 11:00 am CDT

A few reminders:

- Please ensure your camera and microphone are both turned off.
- During the presentation, questions will be taken in the chat window. There will be a time for verbal questions near the end. You can temporarily unmute yourself either by pressing and holding the space bar while you speak.
- These slides and eventually a recording of this presentation can be downloaded from

<https://www.doeleadershipcomputing.org/proposal/informational-webinars/>



2027 INCITE Proposal Writing Webinar



Yasaman Ghadar
Argonne National Laboratory



Mark Berrill
INCITE Program Manager



Dmytro Bykov
OLCF Scientific Engagement Section
Oak Ridge National Laboratory

Objectives of INCITE Proposal Writing Webinar

- **Learn** to write a proposal to obtain significant allocations of compute time and resources at DOE's Leadership Computing Facilities
- **Describe** proposal sections, content, and tips for new and renewal authors.
 - Proposal narratives consist of up to 15 pages describing
 - Description of high-impact science challenge
 - Description of methods, codes, and dependencies
 - Demonstration that computational tasks cannot be done anywhere else
 - Description of team qualifications
- **Timeline**
 - **New** Proposals are due June 15, 2026
 - **Renewal** Proposals are due July 20, 2026 (only those awarded multi-year proposals)
 - PIs will be notified in November 2026
 - Awards begin on February 1, 2027

New and Renewal Proposals

New

Eligibility

- PI without current active proposal
- PI with current active proposal in Year 1, 2 or 3 to end in 2026
- PI with current active proposal and not eligible for renewal

Deadline

June 15, 2026

Renewal

Eligibility

- PI with current active proposal in Year 1 or 2 and eligible^(*) to submit a renewal proposal

^(*) PI will receive a notification from INCITE Program Manager with approval to submit a renewal.

Deadline

July 20, 2026

Today's Agenda

- Allocation programs [9]
- INCITE mission and recent stats [10 – 23]
- LCF computing systems [24 –32]
- Tips for applicants [33 – 54]
 - Common oversights
 - Requesting a startup account
 - Benchmarking data
- Q&A [55, open discussion]
- Conclusions [56 – 62]
 - Submittal, review, and awards decisions
 - Contact links



Changes to the Program / Proposal Submission

Polaris no longer available for 2027

From last year

- **Short paragraph for potential public use**
 - If awarded INCITE, this paragraph is used as a first draft for factsheets
- **Proposal Development Support**
 - <https://www.doeleadershipcomputing.org/proposal/proposal-development-support/>
- **A reminder:**
 - **All** submission materials must be concatenated together into a single PDF file for submission. Individual files will not be permitted.

Changes to the Program / Proposal Submission

- **Special requests**

- Does your project require specialized services such as streaming, near-real time, real time, on-demand, etc?
- New question for PIs to identify those projects that may require resources or services that may not be commonly used on the systems.

- **Training Opportunities**

- Are you aware that ALCF and OLCF offer a variety of training opportunities on their systems? These opportunities include webinars, in-person workshops, hack-a-thons (in-person and remote), etc.
If 'Yes', please list any events you or your team have attended.
- Help us improve our training by indicating which events you (or your team) have attended and if they were useful

Changes to the Program / New Testbeds

- The ALCF and OLCF have testbed resources for new technologies, details below. If you would like access to these resources to support the work in this proposal, please provide the following information. Describe the experiments you would be interested in performing, resources required, and their relationship to the current proposal. Please note, these are smaller experimental resources and a large amount of resources is not available. Instead, these resources are to explore the possibilities for how these technologies might innovate future work.
- **The ALCF AI Testbed**
 - <https://www.alcf.anl.gov/alcf-ai-testbed>
- **OLCF Quantum Computing User Program**
 - <https://www.olcf.ornl.gov/olcf-resources/compute-systems/quantum-computing-user-program>

Resources Available for INCITE 2027

- **OLCF Frontier** is an exascale hybrid CPU/GPU machine that will be available to 2027 INCITE projects. Frontier is open for 3-year proposals.
- **ALCF Aurora** is an exascale hybrid CPU/GPU machine that will be available to 2027 INCITE projects. Aurora is open for 3-year proposals.

ALCF Polaris is no longer available for INCITE proposals

Primary ways to gain access to LCF

Current distribution of allocable hours

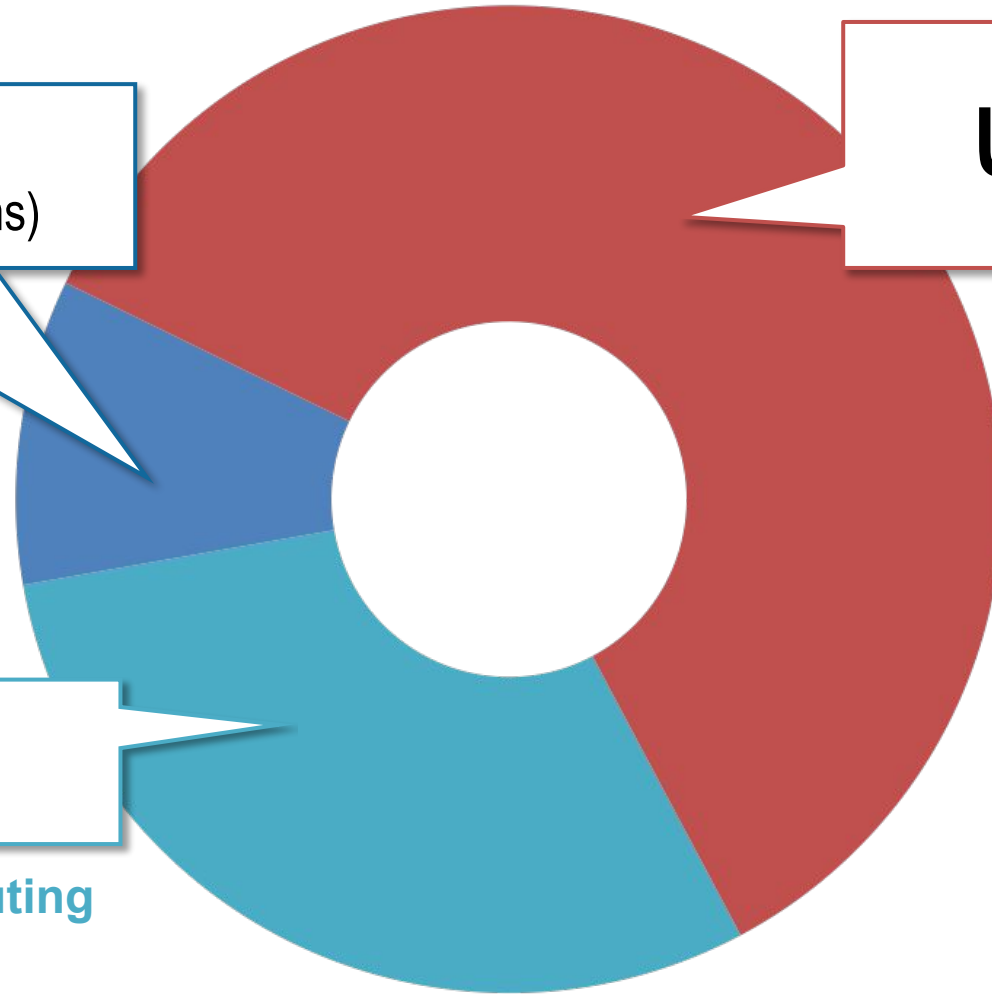
10% Director's Discretionary
(Includes LCF strategic programs)

Up to 60% INCITE

Leadership-class computing

30% ASCR Leadership
Computing Challenge

DOE/SC capability computing



What is INCITE? Innovative and Novel Computational Impact on Theory and Experiment

INCITE promotes transformational advances in science and technology through large allocations of computer time, supporting resources, and data storage at the Argonne and Oak Ridge Leadership Computing Facilities (LCFs) for **compute intensive and/or data intensive** large-scale research projects.



INCITE Seeks High-impact Research Campaigns

Examples of previous successful INCITE applications that advance the state-of-the-art across a broad range of topics and different mission priorities

Astro-Physics

- Glimpse into dark matter
- Supernovae ignition

Chemistry

- Chemical catalyst design
- Batteries
- Solar Cells

Engineering

- Turbulent flow
- Propulsor systems
- Nanodevices

Earth Sciences

- Global climate
- Carbon sequestration
- Seismology

Biology

- Protein structure
- Creation of biofuels
- Replicating enzyme functions
- Membrane channels
- Protein folding

Additional topic areas

- Data and AI
- Computer Science
- Plasma Physics
- Fusion Research
- Quantum Physics
- Materials Science/Engineering
- Nuclear

INCITE Criteria

Access on a competitive, merit-reviewed basis*

1 Merit criterion

Research campaign with the potential for significant domain and/or community impact

2 Computational leadership criterion

Computationally demanding and/or data intensive runs that cannot be done anywhere else: *capability, architectural needs, data and AI at scale*

3 Eligibility criterion

- Grant allocations **regardless of funding source**
- Non-US-based researchers are welcome to apply
- Projects are subject to DOE approval

*DOE High-End Computing Revitalization Act of 2004: Public Law 108-423

Twofold review process

	New proposal assessment	Renewal assessment
1 Peer review: INCITE science panels + (when appropriate) Data/AI panel	<ul style="list-style-type: none"> • Scientific and/or technical merit • Appropriateness of proposal method, milestones given • Team qualifications • Reasonableness of requested resources 	<ul style="list-style-type: none"> • Scientific and/or technical merit • Met milestones • Change in scope • On track to meet future milestones
2 Technical assessment: LCF centers	<ul style="list-style-type: none"> • Technical readiness • Appropriateness for requested resources 	<ul style="list-style-type: none"> • Met technical / computational milestones • On track to meet future milestones
Award Decisions	<ul style="list-style-type: none"> • INCITE Awards Committee comprised of LCF directors, INCITE program manager, LCF directors of science, senior management • All projects are subject to DOE approval 	

Some limitations on what can be done

- Federal law regulates what can be done on these systems
 - LCF systems have cyber security plans that bound the types of data that can be used and stored on them
- Some kinds of information we cannot have
 - Personally Identifiable Information (PII)
 - Classified Information or National Security Information
 - Unclassified Controlled Nuclear Information (UCNI)
 - Naval Nuclear Propulsion Information (NNPI)
 - Information about development of nuclear, biological or chemical weapons, or weapons of mass destruction

Proprietary Work

Proprietary use (e.g., using the resources to generate data or results that they wish to designate as proprietary) of the HPC resources is allowed and will include **full cost recovery through a proprietary user agreement**. The use of proprietary or export-controlled software applications or input data does not by itself constitute proprietary use of the facility. A single and standardized peer-review selection process and project reporting requirement, as described within the INCITE Overview and Policies, will be implemented for both proprietary and non-proprietary user proposals. Given the complexities associated with proprietary research, **individuals considering submittal of a proposal for proprietary research must contact the INCITE manager, INCITE@DOEleadershipcomputing.org**, before the call for proposals closes to discuss the policy on proprietary work.

[Reference: INCITE Overview and Policies.

See <http://www.doeleadershipcomputing.org/proposal/call-for-proposals/>]

TIP

Do not include proprietary and/or export controlled information in the proposal, whether or not the project itself is nonproprietary.

Community vs. Umbrella Proposals

The program encourages **community proposals** that reflect community consensus on, and participation in pursuing, a particular investigative strategy for addressing a grand-challenge-scale science problem. This consensus should be in large part reflected in the proposal's management plan, which describes how the problem will be tackled and the interrelationship of the activities of each of the proposal team investigators.

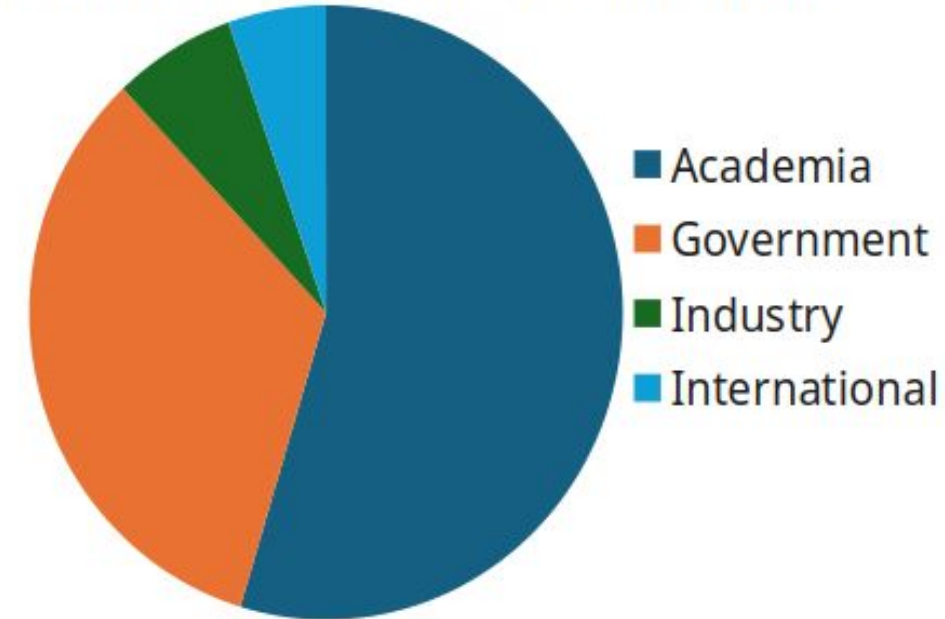
The program does not encourage **umbrella proposals**, which is defined to be a collection of individual proposals aimed at various aspects of a particular science problem but with no clearly articulated interrelationship of the activities of each of the proposal team investigators and/or that do not exploit the unique capabilities of the leadership facilities.

2026 INCITE Award Summary

- Call for proposals closed June 16, 2025
- 60% of allocable time on the LCF production resources was awarded for CY 2026
- 109 peer reviewers from around the world
- **Submitted:** 142 proposals (122 new, 20 renewal)
- **Awarded:** 75 projects (56 new, 19 renewal)
- 46% of nonrenewal submittals were accepted
- 88% of proposals were meritorious

	Requested	Oversubscribed
Frontier	82M	~2.2x
Aurora	53M	~1.8x
Polaris	6.9M	~2.8x

INCITE 2026 Awarded PI Affiliations



Contact information

Mark Berrill, INCITE Manager
INCITE@DOEleadershipcomputing.org

2026 Award Statistics

	Frontier	Aurora	Polaris
Number of projects*	50	37	15
Average Project	827,000	871,000	204,000
Median Project	700,000	780,000	150,000
Total Awards (node-hrs in CY2026) All reported in node-hours native to each resource	37,000,000	29,300,000	2,450,000

- Total of INCITE projects : 75
 - Frontier, Aurora, Polaris : 3
 - Frontier, Aurora : 15
 - Frontier, Polaris: 1
 - Aurora, Polaris : 11

2026 Early Career Summary

Requested Early Career	Frontier	Aurora	Polaris
Total number early career applicants	26	14	14
Percentage of Total Time Requested	23%	18%	28%

Awarded Early Career	Frontier	Aurora	Polaris
Awarded number early career projects	10	7	2
Percentage of Allocated Time	19%	13%	14%

16% of 2026
INCITE to Early
Career

- Total of 13 Early Career INCITE Awards
- 37 total Early Career Applicants, out of 142 applicants
- 89% (33) Early Career Proposals were rated High or Mid-Meritorious (93% in 2025, 61% in 2024, 95% in 2023, 88% in 2022)
- Early Career PIs wrote good proposals and were highly competitive
- Panelists were encouraged to only assess proposals based on their merit – not to promote an early career proposal

2026 INCITE Science Panels

- 109 science experts
- Diverse panels of reviewers including Society Fellows (AAAS, APS, IEEE, etc.), NSF or DOE Early Career scientists, Laboratory Fellows, National Academy members, Department Chairs or Full Professors
- Significant carryover from year to year to promote continuity
- When appropriate, proposals may also be assessed by a separate Data and AI Panel

New Early Career Path

- Why?
 - INCITE looks to support and encourage the next generation of researchers by committing 10% of allocatable hours
- Who can apply to the Early Career Path?
 - Researchers less than 10 years out from their PhD who need LCF-level capabilities to advance their overall research plan, and who have not been a previous INCITE PI.
- How to apply to the Early Career Path?
 - The option to self-identify as Early Career will be available on the INCITE 2027 application.
- Will it increase my chances of an award?
 - If you qualify, it could. Overall, projects must still be meritorious in the peer review and computationally ready.

TIPS

Do examine the Frequently Asked Questions for these and other topics. (#20 - #23)

INCITE HPC Resources 1Y, 2Y and 3Y proposals

LCF

Year 1
2027

Year 2
2028

Year 3
2029



Frontier
Cray/HPE



Frontier
Cray/HPE



Frontier
Cray/HPE



Aurora
Intel-HPE



Aurora
Intel-HPE



Aurora
Intel-HPE

Estimating Time on LCF Resources

- All requests are in Native Node Hours for each resource
- Best Practice: Estimates based on running on resource of interest
 - Request a DD at the appropriate center(s)
 - Perform scaling and timings on a representative problem
- Alternative: Using a similar resource
 - Perform timings on a architecture as similar as possible
 - Frontier - Use an AMD GPU machine (ideally MI250X), otherwise a comparable GPU machine
 - Aurora - Use a comparable GPU machine or closest node architecture
 - Perform scaling on an appropriate sized GPU resource
 - Estimate performance on the targeted machine(s) and include the appropriate details in the proposal
- Awarded hours are not transferable between resources
- All resources require GPU capabilities and performance data should be provided based on measured GPU performance
- Questions: Contact the center(s) or Program Manager

OLCF Resources - Frontier



Frontier is a HPE Cray EX with a theoretical peak double-precision performance of approximately 2 exaflops. It has a total of 9,856 AMD compute nodes. Each Frontier compute node consists of a single 64-core AMD 3rd Gen EPYC CPU and 512 GB of DDR4 memory. Each node also contains [4x] AMD MI250X, each with 2 Graphics Compute Dies (GCDs) for a total of 8 GCDs per node. Each GCD has 64 GB of high-bandwidth memory (HBM2E) for a total of 512 GB of HBM memory per node.

Frontier Specs	
Peak Performance	≥ 2EF DP peak
Node	1 HPC and AI Optimized AMD EPYC CPU (64-cores) 4 Purpose Built AMD Instinct MI250X GPUs, 2 GCDs / GPU
Memory	512 GB DDR4 64 GB HBM Memory/GCD, 512 GB HBM per node
Number of Nodes	9,856
CPU-GPU Interconnect	AMD Infinity Fabric Coherent memory across the node
System Interconnect	4x Slingshot NICs providing 100 GB/s network bandwidth. Slingshot dragonfly network provides adaptive routing, congestion management and quality of service.
Storage	700 PB, Lustre center-wide file system + 11 PB Flash

<https://www.olcf.ornl.gov/frontier>

https://docs.olcf.ornl.gov/systems/frontier_user_guide.html



AURORA

Leadership
Computing
Facility
Exascale
Supercomputer
Overview

Peak Performance
> 2 Exaflops DP

Intel GPU
**Intel® Data Center GPU Max
Series 1550**
Code named "PVC"

Intel Xeon PROCESSOR
**Intel® Xeon® CPU Max Series
with HBM**
Code named "SPR+HBM"

Platform
HPE Cray-Ex

System Size
166 Compute Racks
10,624 nodes
21,248 CPUs
63,744 GPUs

Compute Node
2 CPU, 6 GPU
1 TB DDR5
1 TB HBM
8 Fabric NICs
Node Unified Memory
Architecture

Aggregate System Memory
DDR5 10.9 PB, 5.95 PB/s
HBM CPU 1.36 PB, 30.5 PB/s
HBM GPU 8.16 PB, 208.9 PB/s

System Interconnect
HPE Slingshot 11
Dragonfly topology with adaptive
routing
2.12 PB/s Peak Injection BW
0.69 PB/s Peak Bisection BW

High-Performance Storage
220 PB
31 TB/s DAOS bandwidth
1024 DAOS nodes

Programming Environment
oneAPI
C/C++
Fortran
SYCL/DPC++
Python
Aurora MPICH and oneCCL
OpenMP offload
Kokkos, RAJA
Intel PerformanceTools, Intel gdb
Tensorflow, PyTorch
DDP, Horovod, DeepSpeed
oneDAL and ScikitLearn
Python Libraries
JupyterHub
Julia, Numba
Spark
MLDE, SmartSim

Key Questions to Ask Yourself

- Is both the scale of the runs and the time demands of the problem of LCF scale?
 - Yes, I can't get the amount of time I need anywhere else.
 - Yes, my applications are too large to run on other systems.
- Do you need specific LCF hardware or systems?
 - Yes, the very large memory and I/O available here are necessary for my work.
 - Yes, my application requires mixed/reduced precision accelerator hardware.
- Do you have the people ready to do this work?
 - No, I'm waiting to hire a postdoc.
 - Yes, I have commitments from the major participants.

Key Questions to Ask Yourself (cont.)

- Do you have large data/AI needs?
 - Yes, my data-intensive needs require the LCF resources.
- Do you have a workflow solution?
- Do you have a post-processing strategy?
- Do you use ensemble runs and need LCF resources?
 - My ensembles can run under the direction of a large job or workflow manager, with I/O scaling on a parallel file system -> possibly yes
 - My ensemble expects to run millions of serial batch jobs on nodes with local disk available -> probably no
- Do you understand the life cycle of your data?

Note: Some of these characteristics are negotiable, so make sure to discuss atypical requirements with the centers.

Getting Started: Know Your Audience

- Remember, INCITE is very broad in scope
 - Reviewers are computational-science-savvy senior scientists and engineers drawn around the world from national labs, universities, and industry
 - They will be assessing potential impact of this work versus other proposals submitted

TIPS

Don't assume that your audience is familiar with your work through other review programs (ex. funding agencies). INCITE is very broad in scope and you may be competing against a diverse set of proposals.

Do look at the reviewer questionnaires, posted on the INCITE Call for Proposals site

Proposal Form: Outline

0	Project title
1	Principal investigator and co-principal investigators
2	Project information (Research category, Project Summary)
3	INCITE allocation request; Other funding/computing support
4	Project narrative, other materials
	(A) Executive summary (1 page)
	(B) Project narrative including impact of the work, objectives, benchmarking (15 pages)
	(C) Personnel justification & management plan
	(D) Milestone table
	(E) Publications resulting from INCITE Awards
	(F) PI / Co-I Biographical Sketches
5	Software applications and dependent packages
6	Wrap-up Questions (Proprietary and sensitive information, Export Control)
7	Outreach and suggested reviewers

Narrative: Impact of the Work

This is the principal determinant of a successful submittal!

- What is the scientific challenge and its significance?
- Impact of a successful computational campaign — the big picture
- Reasons this work needs to be done now, on the resources requested

TIPS

Do give a compelling picture of the impact of this work, both in the context of your field and, where appropriate, beyond.

Do explain why this work cannot be done elsewhere. Reviewers scrutinize whether another allocation program may be a better fit.

Narrative: Objectives and Milestones

- Successful proposals must also very clearly
 - Describe the approach to solving the problem, its challenging aspects, preliminary results
 - Tie the resources requested to your key objectives, key simulations, and project milestones in your milestone table

TIPS

Do clearly articulate your project's milestones for each year. Reviewers have downgraded proposals that don't show that the PI has a well thought out plan for using the allocation and LCF resources.

Do bear in mind that the average INCITE award of time for a single project is equivalent to several million dollars.

Narrative: Computational Approach

Provide the basic foundation

- Describe the underlying formulation
 - Don't assume reviewers know all the codes
 - Do show that the code you plan to employ is the correct tool for your research plan
 - Do explain the differences if you plan to use a private version of a well-known code
- List programming languages, libraries and tools used
 - Check that what you need is available on the system
- List required software (noting that the team may need to build some software)

Narrative: Computational Approach

Provide the basic foundation

- Data Management

- Requirements for bringing input data, storage, and movement of data
- Describe how long data needs to remain on spinning disk and archive and how those times were determined
- Describe the long term use of data (e.g. publicly available)
- Describe tools or infrastructure required to support data needs

- Data and AI, and Workflows

- Describe any AI, analytics and viz that are part of the project, and how you intend for that work to be done
- If appropriate, describe workflow tools that will be used to facilitate the volume of work

Narrative: Computational and/or Data Intensive Campaign

- Describe the shape of runs you plan with your allocation
 - L exploratory runs using M nodes for N hours
 - X big runs using Y nodes for Z hours
 - P analysis runs using Q nodes for R hours
- Big runs often have big output and/or big I/O
 - Show you can deal with it and understand the bottlenecks
 - Understand the size of results, where you will analyze them, and how you will get the data there

TIPS

Do clearly emphasize the relationship between the proposed runs and the major milestones. This helps the Awards Committee maximize your milestones, if they can't grant the full award requested.

The details are important!

Code Performance Overview

Performance data should support the required scale

- Use similar problems to what you will be running
- Show that you can get to the range of nodes required
- Demonstrate efficient use of nodes and node-specific hardware (e.g. GPUs on Frontier or Aurora)
- Best to run on the same machine, but similar size runs on other machines can be useful
- Be clear about the number of nodes, MPI ranks, threads, and GPUs being used in runs
- Include production-style I/O in benchmarks (checkpoint/restart, analysis)
- Describe how you will address any scaling deficiencies

TIPS

Do provide performance data in the requested format.

Do provide performance of the scaling baseline, not just scaling efficiency

Parallel Performance: Direct Evidence

WEAK SCALING,

which is defined as how the solution time varies with the number of nodes for a fixed problem size *per node*:

Increase problem size as resources are increased

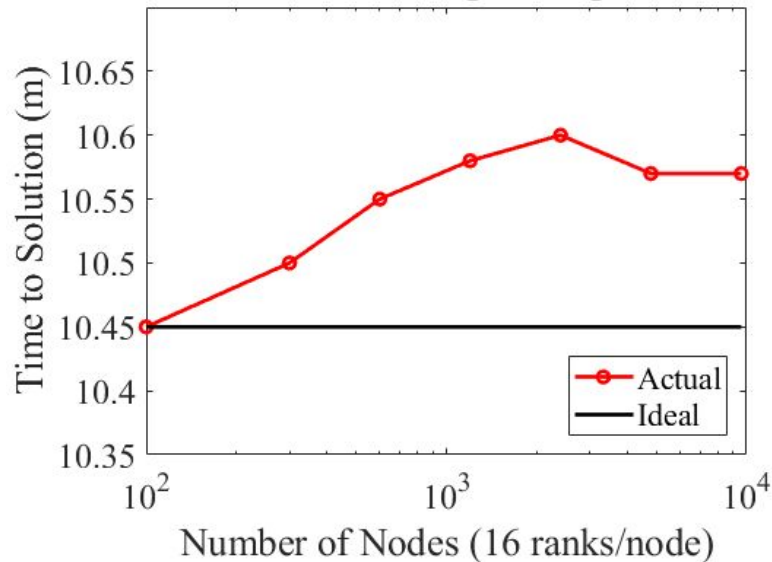
STRONG SCALING,

which is defined as how the solution time varies with the number of nodes for a fixed *total* problem size:

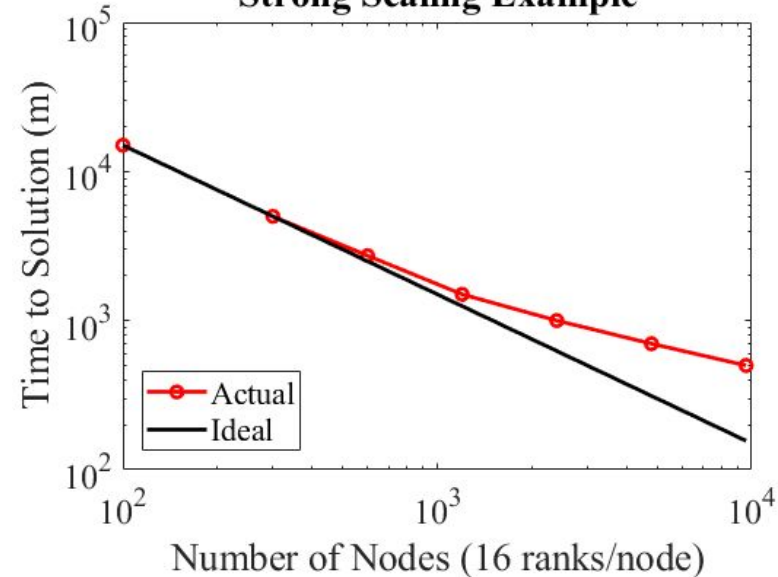
Increase resources (nodes) while doing the same computation

Pick the approach(es) relevant to your work and show results

Weak Scaling Example



Strong Scaling Example



Note: the axes could be samples per second or throughput versus number of nodes. For Data and AI applications, show the scaling (e.g., for convergence) dependence on factors such as hyperparameters and discuss scientific impact.

More About our Ensemble Policy

“Can I meet the computationally intensive criterion by loosely coupling my jobs?”

- Possibly “yes”

- If you require large numbers of discrete or loosely coupled simulations where time-to-solution is an untenable pacing issue, **and**
- If a software workflow solution (e.g., pre- and post-processing scripts that automate run management and analysis) is provided to facilitate this volume of work.

- Probably “no”

- If by decoupling the simulations the work could be effectively carried out on a smaller resource within a reasonable time-to-solution.

TIPS

Do examine the Frequently Asked Questions (#33)

Data and AI Applications

In addition to traditional computationally intensive simulation campaigns, INCITE encourages Data and AI projects.

- Strong aspects of scalable data processing and/or AI.
- Example areas
 - Machine and/or Deep learning
 - Data-intensive computing
 - Experimental/observational/simulation data analytics
 - Complex and interactive workflows
 - Streaming/real-time data analysis
 - Statistical methods
 - Graph analytics
 - Uncertainty quantification

Data and AI Applications

In addition to traditional computationally intensive simulation campaigns, INCITE encourages Data and AI projects.

- Successful proposals must
 - Clearly articulate the objectives and dependencies of the end-to-end research campaign e.g. training data requirements and generation; deep learning/data-driven model selection and validation; model embedding to augment simulations etc.
 - List the application requirements, including databases, machine learning/deep learning frameworks, workflow software, containers, etc.
 - Demonstrate that the software can run efficiently on the resources requested.
- Proposals which target the convergence or interleaving of simulation, data analytics and AI are also encouraged

TIPS

Do examine the Frequently Asked Questions for these and other topics.
(#34 & #35)

Data Usage (All Projects)

- List your total online and offline (archive) storage for the project
- For each milestone list the total online and offline storage
 - Include the estimated duration the data is need
- For large data projects include a discussion of the data requirements
 - storage amount
 - duration
 - brief description of the type of data
- If you have any special or unusual requirements please be sure to describe them in your proposal
- Make sure you read and are familiar with the center(s) data policies

Narrative: Development Work –

- Developmental Work

- Describe any additional development required to execute any of your milestones. Identify any dependencies and how you will validate.
- Estimate the computational resources required for this work and when it will be completed.



Narrative: Management Plan

- Experience and credibility

- List the scientific and technical members and their experience as related to the proposed scientific or technical goals
- Successful proposal teams demonstrate a clear understanding of petascale computing and can optimally use these resources to accomplish the stated scientific/technical goals
- Team members can be part of different proposals

- Transparent use of time

- Projects involving multiple teams or different thrust areas should clearly state how the allocation will be distributed and managed

TIPS

Do include in “Personnel Justification” a brief description of the role of each team member. Although not a requirement, proposals with application developers or clear connections to development teams are favorably viewed by readiness reviewers.

Narrative: Milestone Table

- Clearly state the scientific and technical milestones for each year of your proposed work.
 - Milestones should be appropriate for the size and duration of the requested award. Future modifications in scope will be tracked through this table.
 - As appropriate, details to provide for each milestone:
 - Computing resource and allocation request (node-hours).
 - Production size runs (number of nodes).
 - Filesystem and archival storage, and duration.
 - Software application employed.
 - Summary of the computational tasks (e.g., computational runs, data analysis, data reduction).
 - Dependencies on or between other milestones.
 - Expected start, target completion date and status.

Note:
The Milestone Table is a required document. Proposals without it will not be accepted for review.

Proposal Title Lead PI

[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

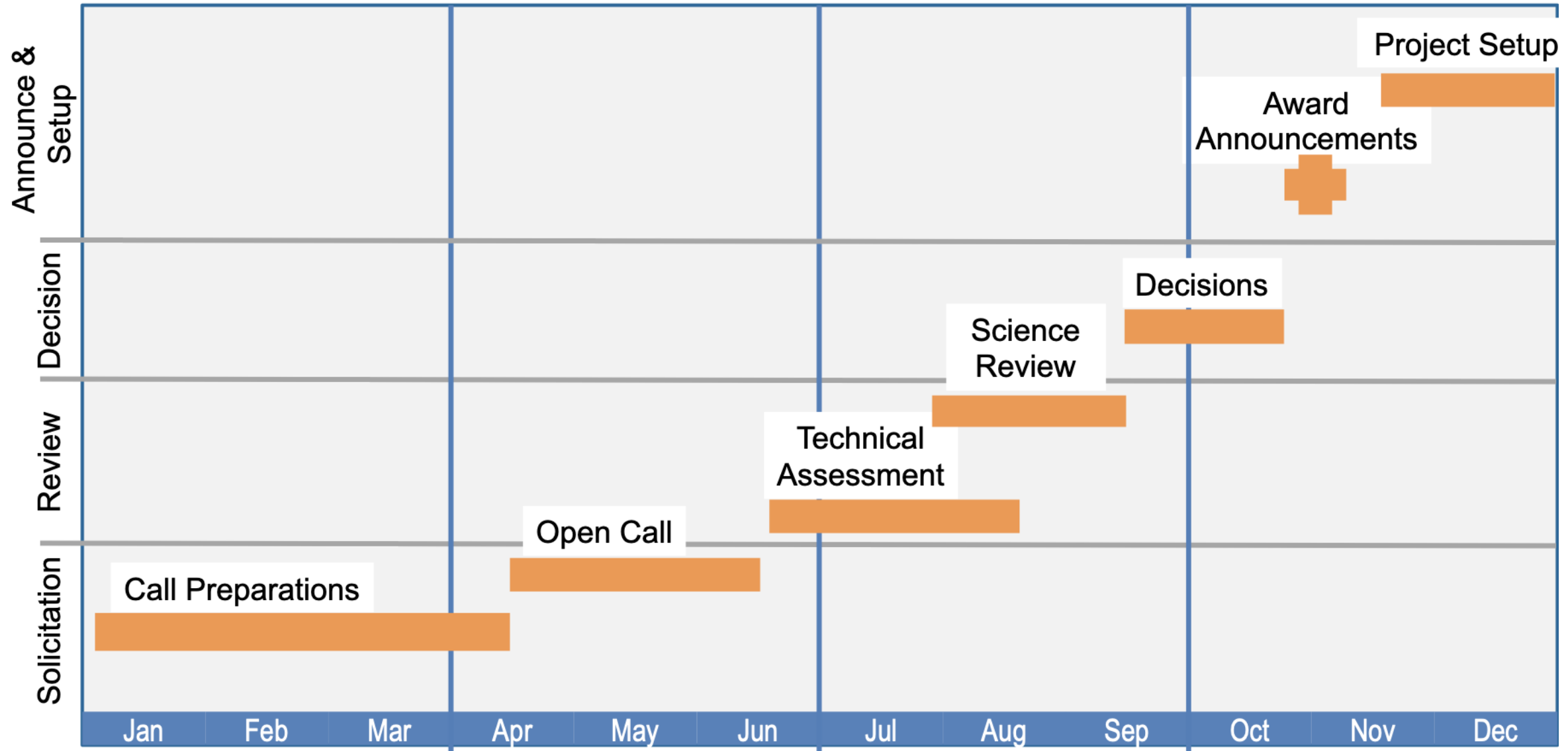
Year 1		Total number of node-hours for Year 1: <i>Insert Text</i>	
Milestone:	Details (as appropriate):	Dates:	Status: (renewals only)
Insert Text	Resource: Insert Text Node-hours: Insert Text Production size runs (number of nodes): Insert Text Filesystem storage (TB and dates): Insert Text Archival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

Narrative: INCITE Publications

- Publications resulting from **INCITE** awards
 - To show impact of the INCITE program, we ask authors to list the publications, **including DOIs when available**, resulting from previous INCITE awards to this project team for work related to the proposal under consideration.
 - All publications that were enabled by an INCITE project should include an acknowledgement of the INCITE program and/or the LCF.
 - Include only publications with INCITE acknowledgements.



INCITE Annual Timeline



Are You Ready to Apply Now?

✔ Port your code before submitting the proposal

- Check to see if someone else has already ported it
- Request a startup account if needed (see next slide)

✔ Provide compelling benchmark data

- Prove application scalability in your proposal
- Run example cases at proposed production scale
- If you cannot show proof of runs at the proposed production scale, then provide a very tight story about how you will succeed

TIPS

Do make the benchmark examples as similar to your production runs as possible, or, make it clear why another benchmark example is valid for your proposed work.

Request a Start-up Account Now

- Director's Discretionary (DD) requests can be submitted anytime
- DD may be used for porting, tuning, scaling in preparation for an INCITE submittal
- Submit applications at least 2 months before INCITE Call for Proposals closes

Argonne DD Program:

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

Oak Ridge DD Program:

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

- Director's Discretionary Proposals considered year-round
- Awards up to thousands of node-hours
- Allocated by LCF center directors



Proposal Form: Final Check

0	Project title
1	Principal investigator and co-principal investigators
2	Project information (Research category, Project Summary)
3	INCITE allocation request; Other funding/computing support
4	Project narrative, other materials
	(A) Executive summary (1 page)
	(B) Project narrative including impact of the work, objectives, benchmarking (15 pages)
	(C) Personnel justification & management plan
	(D) Milestone table
	(E) Publications resulting from INCITE Awards
	(F) PI / Co-I Biographical Sketches
5	Software applications and dependent packages
6	Wrap-up Questions (Proprietary and sensitive information, Export Control)
7	Outreach and suggested reviewers

Open discussion on what authors should include in their proposal

Reminder: The INCITE program has significantly changed its proposal submission site. Please allow extra time to create an account on this site and submit your proposal.

Submitting Your Proposal or Renewal

- You may save your proposal at any time without having the entire form complete
- Required fields must be completed for the form to be successfully submitted
 - An incomplete form may be saved for later revisions
- After submitting your proposal, you **will** be able to edit and resubmit it up until the submission deadline

Submit

INCITE Awards Committee Decisions

- The INCITE Awards Committee is comprised of the LCF center directors, INCITE program manager, LCF directors of science and senior management.
- The committee identifies the top-ranked proposals by peer-review panel ratings, rankings, and reports; and additional considerations.
- Technical assessment review is used to identify whether the top-ranked proposals are “ready” for the requested system.

INCITE Awards Committee Decisions

- A balance is struck to ensure
 - each awarded project has sufficient allocation to enable all or part of the proposed scientific or technical achievements
 - a robust support model for each INCITE project
- When the centers are oversubscribed, each potential project is assessed to determine the amount of time that may be awarded to allow the researchers to accomplish significant scientific goals.
- Requests for appeals can be submitted to the INCITE manager or LCF center directors. If an error has occurred in the decision-making process (e.g. procedural, clerical), consideration is given by the INCITE management and an award may be granted. Assessment of the relative scientific merit is not considered in appeals.

2027 INCITE Award Announcements

- Award decisions are targeted for early November 2026
 - We will communicate with PIs if there are delays
 - Welcome and startup information from centers
 - Agreements to sign: Start this process as soon as possible!
 - Getting started materials: Work closely with the center
- Centers provide expert-to-expert assistance to help you get the most from your allocation
 - Scientific “Liaisons” (OLCF) and “Catalysts” (ALCF)

PI Responsibilities

- Provide quarterly status updates (on supplied template)
 - Milestone reports
 - Publications, awards, journal covers, presentations, etc., related to the work
- Provide highlights on significant science/engineering accomplishments as they occur
- Submit annual renewal request
- Complete annual surveys
- Encourage your team to be good citizens on the computers
 - Use the resources for the proposed work

Let us know your achievements and challenges

PI Responsibilities (cont.)

- Encourage your team to attend the center's user meeting
- All INCITE users are expected to acknowledge the center and the program in publications resulting from their award:
 - An award of computer time was provided by the Innovative and Novel Computational Impact on Theory and Experiment (INCITE) program.

and either

- This research used resources of the Oak Ridge Leadership Computing Facility located in the Oak Ridge National Laboratory, which is supported by the Office of Science of the Department of Energy under Contract DE-AC05-00OR22725.
- This research used resources of the Argonne Leadership Computing Facility at Argonne National Laboratory, which is supported by the Office of Science of the U.S. Department of Energy under contract DE-AC02-06CH11357.

It is a Small World...

- Let the science agency that funds your work know how significant the INCITE program and the Leadership Computing Facilities will be to your work
- Contact us if you have questions; we want to hear from you



Contacts

For details about the INCITE program:

www.doeleadershipcomputing.org
INCITE@DOEleadershipcomputing.org



For details about the centers:

www.olcf.ornl.gov
help@olcf.ornl.gov, 865-241-6536
<https://my.olcf.ornl.gov/project-application-new>



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

