# Quarterly Update

**PI NAME :**

**YEAR :**

**PROGRAM :**

## Project Usage

Please comment on the use of your allocation on the ALCF production resource(s). For example, this could include periods of low utilization due to code/model development, periods of high utilization due to significant campaigns, significant use of the backfill queue or the overburn policy. Also, please comment on any barriers to scaling your workload to 20% and beyond of the ALCF production resource(s).

**Report on Project Milestones**

* Provide status on each of your project’s milestones as outlined in your original proposal.
* List major accomplishments thus far in the current allocation year. Please include scientific, computational and data science details of the simulations undertaken, include images if possible.

## Project Productivity

## Primary

* Publications –
* Presentations –

## Secondary

* Journal Covers, Awards, Honors, Popularizations
* Technical Accomplishments – Please list technical accomplishments such as development of reusable code resulting in a new tool, new algorithm design ideas or programming methodologies, formal software releases, etc.
* Other, for example: results used in outreach initiatives/students graduated or postdocs deployed; Journal Covers; Awards/Honors –
* Highlights – the center creates (concise, short, highly visible) bi-weekly center highlights to submit to DOE—is your project ready, willing, and able to contribute a highlight?

## Center Feedback

* Please answer as applicable: Has the assistance received from the ALCF support teams been beneficial to your project? Cite specific examples, if possible.
* Any additional feedback from your project team for the ALCF?

## Code Description and Characterization

* Name and provide a description of the primary codes used by your project.
* What are the typical production run sizes that your team plans to undertake in the coming year?
* What languages and libraries (scientific, I/O, etc.) are used in each code?
* Describe the current workflow being used for your campaign?
* If possible and useful, please indicate which of the following algorithmic motifs appear in each of your major production codes.

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| Code Name | Dense Linear Algebra | Sparse  Linear  Algebra | Monte Carlo | FFTs | Particles | Structured Grids | Unstructured Grids | AMR |
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| Code Name | Graph Traversal | Dynamic Programming | Graphical Models | Branch-Bound and Backtrack |
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