

# Wrap-up and logistics

## *Argonne Training Program on Extreme-Scale Computing (ATPESC)*

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# Want to keep your ALCF account?

- **The ATPESC project and your accounts will be active until October 1, 2015**
- **Use the account responsibly, no huge long runs. If usage is too high, we will have to terminate accounts and possibly the project**
- **Extending 593s for foreign nationals is not an issue as long as your INS documentation is valid until October 1<sup>st</sup>**
  - Details on next slide

**and – if you are interested**

- **Apply for a Director's Discretionary allocation to ensure an active account beyond October 1**
  - <http://www.alcf.anl.gov/getting-started/apply-for-dd>

# Extending 593s for foreign nationals

- **Please re-check your account information here:**  
<https://accounts.alcf.anl.gov/accounts/account.php>
  - Specifically: 'Citizenship Information' section
- **Note that accounts.alcf.anl.gov does NOT require use of cryptocard - you set this password when you created an account**
  - Call 866-508-9181 to reset the password if you have forgotten it
- **We may contact you for additional paperwork**

# Allocation Programs at the LCFs

	60% INCITE		30% ALCC		10% Director's Discretionary	
Mission	High-risk, high-payoff science that requires LCF-scale resources		High-risk, high-payoff science aligned with DOE mission		Prepare INCITE, ALCC proposals Strategic LCF goals	
Call	1x/year – (Closes June)		1x/year – (Closes February)		Rolling	
Duration	1-3 years, yearly renewal		1 year		3m,6m,1 year	
Typical Size	30 - 40 projects	50M - 500M core-hours/yr.	10 - 20 projects	10M – 300+M core-hours/yr.	100s of projects	.5M – 10M core-hours
Review Process	Scientific Peer-Review	Computational Readiness	Scientific Peer-Review	Computational Readiness	Strategic impact and feasibility	
Managed By	INCITE management committee (ALCF & OLCF)		DOE Office of Science		LCF management	
Readiness	<b>High</b>		<b>Medium to High</b>		<b>Low to High</b>	
Availability	<p>Open to all scientific researchers and organizations</p> <p><b>Capability &gt; 131,072 cores (16.7% of Mira)</b></p>					



# Getting time on Titan

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

- You can request time on Titan through the OLCF Director's Discretionary Program
- <https://www.olcf.ornl.gov/support/getting-started/olcf-director-discretion-project-application/>
- Typically the program awards 1-3M Titan core hours
- Aimed at pilot projects, GPU porting, INCITE/ALCC prep and more



# How to Get Access to NERSC Resources

- **“ERCAP” allocations process**
  - 80% of compute hours allocated by DOE program managers to projects doing research within the DOE mission
  - 10% allocated through ALCC (high-risk, high-payoff)
- **NERSC Director’s Reserve for strategic projects**
  - 10% of computer time (250 M hours)
- **Startup Projects**
  - Investigate how your code will run on HPC systems
  - At NERSC’s discretion
  - Up to 50 K hours for 18 months

Apply for your first NERSC allocation:

<http://www.nersc.gov/users/accounts/allocations/first-allocation/>

The screenshot shows the NERSC website interface. At the top left is the NERSC logo. To its right is a '40 YEARS at the FOREFRONT 1974-2014' anniversary graphic. A search bar is located in the top right corner. Below the header is a navigation menu with links: HOME, ABOUT, SCIENCE AT NERSC, SYSTEMS, FOR USERS (highlighted), NEWS & PUBLICATIONS, R & D, EVENTS, LIVE STATUS, and NERSC@40. The main content area is titled 'FOR USERS' and contains a list of links: Live Status, My NERSC, Move to CRT, Getting Started, Computational Systems, and Data & File Systems. The primary heading on the page is 'APPLY FOR YOUR FIRST NERSC ALLOCATION' in large green letters. Below this is the sub-heading 'Initial Steps Needed to Apply for Your First NERSC Allocation' and a paragraph of introductory text: 'All work done at NERSC must be within the DOE Office of Science mission. See the Mission descriptions for...'

# A few reminders

- **Please return your OLCF cryptocard tokens before you leave; your access to the OLCF systems expires August 14, 2015**
- **For those of you who are *not* planning to continue using your ALCF user account, please return your cryptocard tokens before you leave**



# Boarding passes, luggage, limos

- **Should you have boarding passes you need printed, please send to**  
[support@extremecomputingtraining.anl.gov](mailto:support@extremecomputingtraining.anl.gov)
- **We will print them out for you to pick up in the office (Picasso room) before noon today.**
- **Tomorrow morning you may bring your luggage to this building or ask the hotel to keep it until you leave**
- **A-1 Limo will pick you up in front of the hotel lobby, per scheduled reservations.**



# For those of you who drove here

- **To be reimbursed for mileage, please Google the "shortest" route from home to Pheasant Run. If tolls are involved, please provide the toll amount for the round trip.**

**We will be processing travel reimbursement in the next couple of weeks but these may take additional time to get through the system.**



# Educational and Job Opportunities @ ALCF

## ■ Research Efforts

- Computational Science
- Computer Science
- Technical Communication
- Operations Research

## ■ ALCF Director's postdoctoral program (3 years)

## ■ Divisional postdoctoral positions (3 years)

## ■ PhD dissertation support

## ■ Undergraduate and graduate internships

- And advanced high-school level

## ■ Faculty research participation



For information on the educational,  
postdoctoral, and faculty programs at  
Argonne National Laboratory

- <http://www.anl.gov/education>



# 2015 'ATPESC'ers: Keep in Touch!

- Subscribe to *Newsbytes*, the monthly newsletter from the Argonne Leadership Computing Facility

To subscribe, go to our homepage at [www.alcf.anl.gov](http://www.alcf.anl.gov) and enter your email in the box at the bottom right of the page.

- "Like" the Argonne Leadership Computing Facility on facebook!

## Newsbytes

Argonne Leadership Computing Facility

ALCF Monthly Newsletter

August 2014



### 2013 ATPESC Video Presentations Now Online

With the 2014 Argonne Training Program on Extreme Scale Computing now underway, we are pleased to provide access to videos from last year's program.

[Check out the videos »](#)

### Analysis & Opinion

The ALCF's Paul Messina writes on the importance of HPC training for Scientific Computing World.



### Getting from H<sub>2</sub>O to hydrogen fuel

Researchers from the University of Chicago are using Mira to study photoelectrochemical energy conversion.

[Read more »](#)



# ATPESC Social Media

The screenshot displays the Facebook interface for the "Argonne Training Program on Extreme-Scale Computing" page. At the top, the navigation bar includes the Facebook logo, the page name, a search bar, and links for Home, Messages, Notifications (with a red badge), and Publishing Tools. Below this, there are links for Page, Messages, Notifications (with a red badge), Publishing Tools, Settings, and Help.

The main banner area features a collage of scientific images, including a 3D molecular model, a heatmap, and a network diagram. The text "Argonne Training Program on Extreme-Scale Computing Community" is prominently displayed, along with buttons for "Create Call to Action", "Share", and a menu icon.

On the right side, there is a "Promote" dropdown menu, a "THIS WEEK" section showing "3 Page Likes", and a "Recent" section for the year "2015".

The main content area is divided into sections: "Timeline", "About", "Photos", "Likes", and "More". The "Timeline" section shows a post celebrating "100 Likes" with a "Promote Page" button. Below this is an "ABOUT" section with a description: "As a bridge to that future, this program fills the gap that exists in the training computational scientists typically receive through formal education." and a "Promote Website" button with the URL "http://extremecomputingtrain...".

The "PHOTOS" section features a "Photo gallery from ATPESC 2014" with a large group photo of participants. Above the gallery, there is a post from "Argonne Training Program on Extreme-Scale Computing" sharing an album from the "Argonne Leadership Computing Facility" and mentioning it was published by Beth Cerny 19 hours ago.

# ATPESC Social Media

## Like us on Facebook

- **Share your experience on the ATPESC Facebook page**
  - Share your photos
  - Share something that you didn't know before
  - Share how this will help your career
  - Share how wonderful the lecturers are
  - Share interesting articles on Computational Science using HPC
  - **facebook.com/atpesc**
- The page is open to the public and allows anyone to add postings, photos, and videos. All posts will be moderated by ALCF staff.

# ATPESC Social Media

The screenshot shows a LinkedIn group page for the 'Argonne Training Program on Extreme-Scale Computing'. The page header includes the LinkedIn logo, a search bar, and navigation links for Home, Profile, Connections, Jobs, and Interests. The group name is 'Argonne Training Program on Extreme-Scale Computing' with a lock icon, and it has 1 member and an Owner. Below the group name are tabs for Discussions, Promotions, Jobs, About, Search, and Manage. A section titled 'Start a discussion with your group' contains a text input field for a discussion title. Below this is a post by Beth Cerny Patino, Marketing Communications at Argonne National Laboratory. The post title is 'ATPESC 2015 set to groom new generation of supercomputer users' and includes a link to a Google document. The post content describes the start of the ATPESC training program on August 2, involving 67 researchers. The post has 0 comments, 0 likes, and 0 unfollows, and was posted 1 second ago. On the right side of the page, there are two informational boxes: 'Changes for messaging group members' and 'Your group contribution level'.

**Argonne Training Program on Extreme-Scale Computing** 1 member Owner

Discussions Promotions Jobs About Search Manage

**Start a discussion with your group**

Enter a discussion title

Sort by: Popular

**Beth Cerny Patino** Marketing Communications at Argonne National Laboratory

**ATPESC 2015 set to groom new generation of supercomputer users**

We are excited for the start of this year's training program! <http://goo.gl/rrCfqi>

**ATPESC 2015 set to groom new generation of supercomputer users**  
goo.gl • With the Argonne Training Program on Extreme-Scale Computing (ATPESC) kicking off on Sunday, August 2, a group of 67 researchers will begin a crash course on how to effectively use the world...

Comment (0) • Like (0) • Unfollow 1 second ago

Add a comment...

**Changes for messaging group members**

We've updated the rules for messaging the Out of Network members in your Groups to prevent abuse. To read more about how we've improved Groups, visit our [Help Center](#).

**Your group contribution level**

Start by commenting in a discussion. Group participants get 4x the number of profile views.

Getting Started

About | Feedback | Privacy & Terms

LinkedIn LinkedIn Corp. © 2015

# ATPESC Social Media

## Join our ATPESC LinkedIn Group

- **Open to all ATPESC alumni; private for members-only**
  - Start a discussion
  - Share job openings
  - Share interesting articles related to the group
  - Share the value of your ATPESC experience
  - Share opportunities
  - Search group name: **Argonne Training Program on Extreme-Scale Computing**
  - URL: **[linkedin.com/grp/home?gid=8355790](https://www.linkedin.com/grp/home?gid=8355790)**
  - The ATPESC group on LinkedIn is closed and only members can see and participate in group discussions.

# Help us continue offering the ATPESC

- if you ever find sometime later that some portion of the class was particularly useful for what you are doing or helped you get a job, please let us know
- Such anecdotes help us make the case with the sponsors for continued funding of the program in future years



# A few thanks *(names in alphabetic order)*

- **Local arrangements and countless logistics**

- Ashley Boyle, Ginny Doyle, Julie Smagacz, Cheryl Zidel

- **Operations**

- Tommie Jackson, Ben Lenard, Skip Reddy, Paul Rich, Adam Scovel

- **ALCF User Services**

- Liza Booker, Beth Cerny, Richard Coffey, Chel Lancaster, Lalitha Mantrala, Jini Ramprakash, Robert Scott

- **Curriculum track leaders**

- Pete Beckman, Lori Diachin, Anshu Dubey, Joe Insley, Kalyan Kumaran, Rob Latham, Rusty Lusk, Lois McInnes, Mike Papka, Scott Parker, Katherine Riley, Rob Ross, Rajeev Thakur

- **OLCF**

- Ashley Barker, Lisa Jordan Rael, Fernanda Foertter, Jim Hack

- **NERSC**

- Richard Gerber, Clayton Bagwell



# And thanks to you!

- **Thanks for taking two weeks of your summer to participate in this program, I hope you found it worthwhile**
- **Questions?**

