

October 1, 2012

Introduction to Free HPC Resources: XSEDE

XSEDE

Extreme Science and Engineering
Discovery Environment



What IS it?

XSEDE is a comprehensive set of advanced, heterogeneous high-end digital services integrated into a general-purpose infrastructure.



XSEDE Offerings

- **Compute**
- **Visualization**
- **Data**
- **ECSS**
- **TEOS**
- **User Engagement**
- **User Portal**









But, XSEDE isn't just about “Big Iron”...

- **User Productivity is main focus**
- **Enabling research is key to program success**
- **Novel and Innovative Project welcomes non-traditional fields of study.**



Other Projects and Services

- **Campus Champions**
- **Campus Bridging**
- **Science Gateways**
- **Speakers Bureau**
- **Engaging under-represented communities**



Now...the BIG question...

**How do I take advantage
of these services?**



Help with Allocations

- **Does your institution have a Campus Champion? (Currently at 126 institutions)**
www.xsede.org/current-champions
- **Process is well documented and defined:**
<https://www.xsede.org/allocations>



Important Info!

- **What type of resource do I need?**
- **Does the resource have my application?**
- **How much compute time do I need?**
- **ECSS needed on Project?**
- **TEOS help to get up to speed?**

Types of Allocations

- **Startup Allocation**
- **Educational Allocation**
- **XRAC Allocation**



XRAC Allocation Periods

OPEN SUBMISSIONS	CLOSE SUBMISSIONS	ALLOCATIONS BEGIN
Dec 15	Jan 15	April 1
Mar 15	Apr 15	Jul 1
Jun 15	Jul 15	Oct 1
Sep 15	Oct 15	Jan 1

Recruiting Campus Champions




Contact Kay Hunt <kay@purdue.edu>

Jeff Pummil

**Arkansas High Performance
Computing Center**

jpummil@uark.edu





Our reach will forever
exceed our grasp, but,
in stretching our horizon,
we forever improve our world.

XSEDE

Extreme Science and Engineering
Discovery Environment