Name: William K. Barnett, Ph.D.	Institution: Indiana University	
Date of Hire: September, 2007	Title: • Director, Science Community Tools • Institutional PI, Grid Operations Center: OSG, the Next Generation	FTE level: *5% OSG (institutional match)*

Education:
Boston University
Ph.D., Archaeological Studies, 1989, Dr. Creighton Gabel, advisor.

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*

1. Richard LeDuc, Matthew Vaughn, John M Fonner, Michael Sullivan, James G Williams, Philip D Blood, James Taylor, William Barnett, Leveraging the national cyberinfrastructure for biomedical research, JAMIA 2014;21:195-199 doi:10.1136/amiajnl-2013-002059, 2013
2. Berman, Ari, William Barnett, and Sean D. Mooney, Collaborative software for traditional and translational research, Human Genomics 6:21, 2012.
3. Weber, Griffin M, William Barnett, Mike Conlon, David Eichmann, Warren Kibbe, Holly Falk-Krzesinski, Michael Halaas, Layne Johnson, Eric Meeks, Donald Mitchell, Titus Schleyer, Sarah Stallings, Michael Warden, Maninder Kahlon, Members of the Direct2Experts Collaboration, Direct2Experts: a pilot national network to demonstrate interoperability among research-networking platforms, JAMIA doi:10.1136/amiajnl-2011-000200, 2011.
4. Barnett, William K., Von Welch, Alan Walsh, and Craig A. Stewart, A Roadmap for Using NSF Cyberinfrastructure with InCommon. http://hdl.handle.net/2022/13024, 2011

Work History: *A list of significant leadership or management positions held over the past six years.*

- *Co-Director, Translational Informatics, Indiana Clinical and Translational Sciences Institute*
- *Director, Science Community Tools, Research Technologies, Indiana University*
- *Director, National Center for Genome Analysis Support, Indiana University*
- *Associate Adjunct Professor, Medical and Molecular Genetics, Indiana University School of Medicine*
- *Associate Director, Center for Applied Cybersecurity Research*

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

- *Open Science Grid Council – Voting Member*

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*

n/a

Name: William K. Barnett, Ph.D.	Institution: Indiana University

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*

0.05 FTE – Production, Operations, and Communication, management oversight, and participation on the OSG Council

Current roles: *What the role is played in each functional area*

OSG Management oversight for Production, Operations and Communication and Indiana University PI.

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

Participation in International Science Grid This Week (iSGTW) management committee.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*

Oversight of Reorganization of OSG web presence
Oversight of review of credentialing strategy, PKI versus InCommon credentials

Name: Lothar A. T. Bauerdick	Institution: Fermi National Accelerator Laboratory	
Date of Hire: 11/2000	Title: Scientist II	FTE level: *30%*

Education:
Ph.D. in Physics, Johannes Gutenberg-University, Mainz, Germany, 1990
Advisor: Prof. Konrad Kleinknecht

Publications:
Author and co-author of more than 610 journal articles

Work History:

Executive Director of the Open Science Grid	since 2012
Software and Computing Manager for the U.S. CMS Operations Program	since 2000
Deputy Head Scientific Computing Division at Fermilab	since 2012
Director of the CMS Center at Fermilab	2006-2011

DOE/HEP Roles:

DOE-NP Review Panel on U.S. Alice Tier-2	2014
Convener of the 2013 Community Summer Study on the Future of U.S. Particle Physics	2013
Member of the IceCube Science Advisory Committee	since 2008

Mentoring:

Name: Lothar A. T. Bauerdick	Institution: Fermi National Accelerator Laboratory

Current activities:
0.3 FTE: OSG Executive Director

Current roles:
Executive Director: Chair the OSG Executive Team and the Executive Board.

As Executive Director I match the program of work to the scientific needs of the stakeholders from the OSG. I lead the external relations and outreach parts of the OSG project, communicating between with OSG and external bodies and partners. The Executive Director, together with the Executive Team, decides on staff resource allocations across the projects, runs periodic reviews of operations efficiencies and delivery of resources to the stakeholders.

Recent accomplishments:
Successfully led the Executive Team, prepared annual plans, directed the project and strengthened the consortium.

Near future plans:
Continue to provide leadership and vision to move OSG into the future

Name: Jose Caballero Bejar	Institution: Brookhaven National Laboratory	
Date of Hire: 01/11/2008	Title: Adv. Appl. Eng.	FTE level: *50%*

Education:
PhD in Physics
2007, Complutense University of Madrid, Spain
Advisor: JOSE MARIA HERNANDEZ CALAMA

Publications:
** gLExec and MyProxy integration in the ATLAS/OSG PanDA workload management system, J.Phys.Conf.Ser.219:072028,2010*
** Improving Security in the ATLAS PanDA System J.Phys.Conf.Ser.331:062005,2011*
** Automatic Integration Testbeds validation on Open Science Grid, J.Phys.Conf.Ser.331:062027,2011*
** AutoPyFactory: A Scalable Flexible Pilot Factory Implementation, J.Phys.Conf.Ser.396:032016,2012*
** ATLAS Cloud R&D, J.Phys.Conf.Ser.513:062037,2014*

Work History:
** Developer of the PanDA clients for non-ATLAS users.*
** Integration of gLExec and MyProxy into the PanDA pilot for ATLAS.*
** Coordinator of the OSG International Outreach program.*
** Developer of the new ATLAS Pilot Factory: AutoPyFactory.*
** Coordinator and lead developer of project OASIS (OSG Application and Software Installation Service).*
** Recently member of the OSG SOFTWARE Team.*

DOE/HEP Roles:

Mentoring:

Name: Jose Caballero Bejar	Institution: Brookhaven National Laboratory

Current activities:

** OSG SOFTWARE: 25%*

** OSG TECHNOLOGY INVESTIGATIONS: 25%*

Current roles:

** OASIS coordinator, as part of the OSG TECHNOLOGY INVESTIGATIONS effort.*

Recent accomplishments:

** Finished the current version of AutoPyFactory, now widely deployed for ATLAS world-wide, including the built-in cloud management features.*

** Maintenance of the AutoPyFactory service at BNL.*

** Wrote the new ATLAS wrapper job.*

** Became the coordinator of the OASIS project.*

Near future plans:

** Complete deliverables for the new version of the OASIS project.*

** Keep working as part of SOFTWARE TEAM and TECHNOLOGY INVESTIGATIONS TEAM as requested.*

Name: Brian Bockelman	Institution: University of Nebraska-Lincoln	
Date of Hire: January, 2008	Title: Asst Rsch Prof	FTE level: 45%

Education: (Highest degree held only)
PhD in Math and Computer Science. University of Nebraska-Lincoln (advisor: Dr. Thomas Shores). August.

Publications:

1. Weitzel, D., Sfiligoi, I., Bockelman, B., Frey, J., Würthwein, F., Fraser, D. and Swanson, D. 2013. Accessing opportunistic resources with Bosco. In Proceedings of the *CHEP,* Amsterdam, NL, October 2013
2. Sfiligoi, I., Martin, T., Würthwein, F. and Bockelman, B. 2013. Minimizing draining waste through extending the lifetime of pilot jobs in Grid environments. In Proceedings of the *CHEP,* Amsterdam, NL, October 2013, doi:doi:10.1088/1742-6596/513/3/032089
3. Bauerdick, L., Benjamin, D., Bloom, K. and Bockelman, B. et al. 2012. Using Xrootd to Federate Regional Storage. In Proceedings of the *CHEP 2012,* New York, doi:10.1088/1742-6596/396/4/042009
4. M. Altunay, P. Avery, K. Blackburn, B. Bockelman et al, "A Science Driven Production Cyberinfrastructure—the Open Science Grid", 2011 *J. of Grid Computing,* doi:10.1007/s10723-010-9176-6.
5. B. Bockelman, "Using Hadoop as a Grid Storage Element", 2009 J. Phys.: Conf. Ser. 180 01204.

Work History:

- 6/2013 – present: Asst. Research Professor, Computer Science and Engineering
- 2013 – present: USCMS Computing Project Execution Team member
- 8/2012 – present: Project lead for Lark (based on NSF CC-NIE grant #1245864)
- 10/2011 – present: OSG Technology Area Coordinator
- 10/2011 – present: Any Data, Any Time, Anywhere project technical lead (NSF PIF #1104664)
- 1/2008 – 6/2013: Postdoc Researcher, University of Nebraska-Lincoln
- 1/2008 – 2013: USCMS Grid Services Team member
- 1/2008 - 10/2011: OSG Metrics and Metrics Area coordinator

DOE/HEP Roles:

- WLCG Grid Deployment Board member
- CHEP 2013 Program Committee.
- Fall 2014 HEPiX conference local organizer

Mentoring: All students below are graduate students mentored in the UNL CSE department:

- Derek Weitzel.
- Zhe Zhang
- Björn Barrefors

No post-docs were mentored.

Name: Brian Bockelman	Institution: University of Nebraska-Lincoln

Current activities:
OSG Technology, 0.5FTE

Current roles:
Area lead.
This includes:

- Management duties across the technology area and its sub-areas (investigations, software, and release).
- Technical engineering work is done for the investigations area to evaluate new software that might impact the OSG in the medium-term.
- Architecture and design work to guide the technical strategy through OSG Blueprint meetings.

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

- (Software) Finish planning and execution of OSG's transition to native packaging formats.
- (Investigations in conjunction with Operations) Help develop and rollout an OSG software distribution service, based on the CVMFS software from CERN.
- (Investigations) Design and guide the use of HTCondor as a gatekeeper for the OSG-CE.
- (Release) Help design the current software release process.
- (Investigations) Serve as a liaison between the HTCondor and the OSG projects, coordinating requirements and patches as necessary.
- (Investigations in conjunction with security) Help reduce the number of host certificates required to operate CMS sites.
- (Software) Help produce a working version of jglobus2, allowing the software team to complete the transition to SHA-2.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*

- (Software) Continuously decrease the number of packages shipped by OSG Software.
- (In collaboration with Production) Complete transition from Globus GRAM to HTCondor-CE.
- (In collaboration with User Support, CMS, and external HTCondor project) Work to double the scalability of the opportunistic pool infrastructure.
- (In collaboration with Networking and Production) Refine and deploy a datastore for networking metrics so OSG can act as an archive for network performance information.
- (Investigations) Develop a template for OSG VOs to utilize XSEDE allocations.
- (In collaboration with Security) Reduce the OSG's reliance on high-quality host certificates.

Name: Timothy A. Cartwright	Institution: University of Wisconsin–Madison	
Date of Hire: April 2005	Title: Senior Systems Programmer	FTE level: 100%

Education: 1996, Ph.D. in Cognitive Science, Johns Hopkins University; Dr. Michael Brent, advisor

Publications: [none]

Work History:

- 2005–2012: University of Wisconsin–Madison, OSG Software Developer
- 2012–current: University of Wisconsin–Madison, OSG Software Manager

DOE/HEP Roles:

- 2010–current: Organizer, OSG User School – annual training event for computational scholars

Mentoring: [none]

Name: Timothy A. Cartwright	Institution: University of Wisconsin–Madison

Current activities:

- OSG Technology / Software: 0.8 FTE
- OSG Education / User School: 0.2 FTE

Current roles:

- OSG Technology: OSG Software manager (0.5 FTE overall), senior designer and developer (0.3 FTE)
- OSG Education: Organizer of OSG User School (0.2 FTE)

Recent accomplishments:

OSG Technology:

- Managed Software team through several significant technology changes
- Designed and implemented a new functional integration test system and suite of tests
- Designed and implemented a means of running automated tests in virtual machines

OSG Education:

- Organized and ran OSG User Schools, 2010–2014
- Taught some School sections and helped update curriculum for others

Near future plans:

- Manage the activities and people of the OSG Software team
- Maintain and enhance OSG software and packaging to support OSG sites
- Evaluate the effects of major software changes before sites deploy them
- Create, maintain, and run automated tests of the integrated OSG software system
- Improve usability, coverage, and accuracy of documentation for OSG site administrators
- Continue improving and running the OSG User School

Name: Mine Altunay Cheung	Institution: Fermi National Accelerator Laboratory	
Date of Hire: July 2, 2007	Title: Security Officer	FTE level: *0.7*

Education: 2007, North Carolina State University, PhD in Computer Engineering, Advisor: Dr. Greg Byrd

Publications:

"A System and Method for Securing Genomic Information" V. Batra, M. Altunay, C. Warade, D. Colonnese, L. K. Wilber, S. Vadlamudi. USA Patent 7,702,104 Granted on April 20, 2010.

Z. Xie, M. Altunay, S. Leyffer, J. T. Linderoth. "Optimal response to the Attacks on the Open Science Grid". Journal of Computer Networks, 2010.

JeeHyun Hwang, Tao Xie, Vincent Hu, Mine Altunay. "Mining Likely Properties of Access Control Policies via Association Rule Mining", 24th Annual IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2010).

JeeHyun Hwang, Tao Xie, Vincent Hu, Mine Altunay. "ACPT: A Tool for Modeling and Verifying Access Control Policies" IEEE Intl Symposium on Policies on Distributed Systems and Networks.

Gabriele Garzoglio et al., "Definition and Implementation of a SAML-XACML Profile for Authorization Interoperability Across Grid Middleware in OSG and EGEE", Journal of Cluster Computing (online) on Apr 2009, DOI: 10.1007/s10723-009-9117-4

Work History: *Security Officer for OSG.*

DOE/HEP Roles:

Reviewer for DOE Advanced Scientific Computing Research (ASCR) Program Calls

Reviewer for Intl Conference on Computing in High-Energy and Nuclear Physics

Reviewer for DOE Early CAREER Awards

Organizing Committee of EDUCAUSE CyberSecurity Summit for Large Research Facilities (2008-2009)

Participant in the DOE Security Town Hall Meetings.

Mentoring: *JeeHyun Hwang. Obtained his PhD from North Carolina State University 2014. He performed a summer internship with me, which resulted in the following papers:*

JeeHyun Hwang, Tao Xie, Vincent Hu, Mine Altunay. "Mining Likely Properties of Access Control Policies via Association Rule Mining", 24th Annual IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2010).

JeeHyun Hwang, Tao Xie, Vincent Hu, Mine Altunay. "ACPT: A Tool for Modeling and Verifying Access Control Policies" IEEE Intl Symposium on Policies on Distributed Systems and Networks

Name Mine Altunay Cheung	Institution Fermi National Accelerator Laboratory
Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area* *Security area at 0.7 FTE.*	
Current roles: *Security Officer* *Leading the security team on areas such as operational security, identity management, policy and procedures, risk management.*	
Recent accomplishments: We have focused on the Identity Management area and sought ways to make it easier on our users to access the GlideinWMS job submission infrastructure. We examined the security of the GlideninWMS job submission system, which turned out to be adequate, and planned an alternative access method for our users, where they do not need to obtain X.509 certificates. The resulting system was as secure as the previous one that used certificates and significantly easier for the end users. We were able to make this change because the GlideinwWMS system had security capabilities built into the system, which made user management, tracking and accountability possible. As a result of this work, we experienced a significant increase in the grid utilization of non-LHC VOs which are not very familiar with X.509 technology. The users from these VOs reported increased productivity and easier reach into the grid resources. Overall this change had a very positive direct impact on our end users' experience and productivity.	
Near future plans: We want to continue our work on Identity Management area and bring user-friendly access control management technologies to the storage and data transfer areas. Our work so far focused on the job submission, but the future portion will focus on the data management. We will also research ways to integrate our identity management infrastructure with campus identities.	

Name: Jeffrey Dost	Institution: University of California San Diego	
Date of Hire: Jun 2009	Title: Programmer Analyst II	FTE level: *70%*

Education: *only the date, institution, and advisor for the PhD or highest degree held.*

B.S. Physics, UCSD, June 2010

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*

- Bauerdick L, et al 2014 "XRootd, disk-based, caching proxy for optimization of data access, data placement and data replication", J.Phys.Conf.Ser. 513 042044
- Sfiligoi I, Dost J M 2014 "Using ssh and sshfs to virtualize Grid job submission with RCondor", J.Phys.Conf.Ser. 513 032088
- Sfiligoi I, et al 2012 "glideinWMS experience with glexec", J.Phys.Conf.Ser. 396 032101
- Sfiligoi I, et al 2012 "The benefits and challenges of sharing glidein factory operations across nine time zones between OSG and CMS", J.Phys.Conf.Ser. 396 032103
- Sfiligoi I, et al 2011 "Operating a production pilot factory serving several scientific domains", J.Phys.Conf.Ser. 331 072031

Work History: *A list of significant leadership or management positions held over the past six years.*
Lead Glidein Factory Operator

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*
Trained and supervised the following people for the Factory Operations team:
Graduate Students:
Daniel Klein
Alex Georges

CERN Cat-A:
Luis Linares
Alison McCrea
Marian Zvada
Ignas Butenas

UCSD Staff:
Brendan Dennis
Tim Mortensen

Supervised various UCSD undergraduates for student research projects relating to glideinWMS Factory

Name: Jeffrey Dost	Institution: University of California San Diego
Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area* Glidein Factory Operations 25% Site Support 25% Software Integration 20%	
Current roles: *What the role is played in each functional area* Lead Glidein Factory Operator (covers both Factory Operations and Site Support), and as such responsible for supervision of day-to-day operations of the service. Software Integrator	
Recent accomplishments: *Significant achievements in each functional area in the last three years.* Responsible for running and maintaining the OSG Glidein Factory for the past 4 years. The Glidein Factory is a production meta-scheduler service that supports 14 scientific communities within the OSG, and accounts for 65% of all OSG usage.	
Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.* Plan to expand the scale and diversity of operations for OSG. We plan to achieve this in two ways: 1) Extend the scale of the Glidein Factory service itself, making it capable of providing a larger number and greater variety of resources to the end user. 2) Increase the diversity of our user base by inviting more scientific communities to utilize the service, which in turn brings more diversity to the communities that utilize the Open Science Grid.	

Name: Carl Edquist	Institution: University of Wisconsin–Madison	
Date of Hire: February 2013	Title: Systems Programmer	FTE level: 100%

Education: 2005, Bachelor of Science, University of Wisconsin–Madison

Publications: [none]

Work History:

2008–2009: Nemean Networks, Software Developer
2009–2012: SXP Analytics, Software Developer
2013–current: University of Wisconsin–Madison, OSG Software Developer

DOE/HEP Roles: [none]

Mentoring: [none]

Name: Carl Edquist	Institution: University of Wisconsin–Madison

Current activities:

- OSG Technology / Software: 1 FTE

Current roles:

- OSG Technology: OSG Software developer

Recent accomplishments:

- Maintained several OSG software components that are used at OSG sites
- Packaged and maintained packaging of many software components used at OSG sites
- Created several internal tools for OSG Software team use
- Provided support for OSG site administrators

Near future plans:

- Maintain and enhance OSG software and packaging to support OSG sites
- Support OSG sites as they deploy and use OSG software
- Evaluate the effects of major software changes before sites deploy them
- Create, maintain, and run automated tests of the integrated OSG software system
- Maintain and enhance internal systems for supporting OSG software

Name: Michael Ernst	Institution: Brookhaven National Laboratory	
Date of Hire: N/A	Title: PI, ATLAS Liaison	FTE level: *10% (unfunded)*

Education: *only the date, institution, and advisor for the PhD or highest degree held.*
August 1, 1983, Technical University Berlin, Germany, PhD advisor Professor Peter Schulz

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*
G. Bell and M. Ernst, "HEP Community Summer Study 2013 Computing Frontier Group I3: Networking", Contribution to the workshop report, Snowmass on the Mississippi, 2013
William Johnston, M. Ernst, Brian Tierney, Eli Dart. "Enabling high throughput in widely distributed data management and analysis systems: Lessons from the LHC", TERENA Networking Conference 2013
Mine Altunay, Ruth Pordes, Miron Livny, M. Ernst et al. "A science driven production cyberinfrastructure – the Open Science Grid", Journal of Grid Computing, Volume 9, Issue 2, June 2011
Sergey Panitkin, et al. "Distributed Analysis with PROOF in the ATLAS Collaboration", Journal of Physics, conference series CHEP153R1; CHEP 2009, Prague, Czech Republic, 2009

Work History: *A list of significant leadership or management positions held over the past six years.*
Scientist, Physics Department, Brookhaven National Laboratory, 2007 - present
Director, RHIC and ATLAS Computing Facility, US ATLAS Facility Manager
Chair of the Scientific Computing Advisory Committee of *CNAF*, the National Center of *INFN* (National Institute of Nuclear Physics in Italy) for Research and Development in the field of Information Technologies, 2013 - present
Member of the Scientific Computing Advisory Panel of CCIN2P3 (Centre de Calcul de l'Institut National de Physique Nucléaire et de Physique des Particules, includes the French LHC Tier-1 center, the European hub for BaBar and LSST), 2008-2012
Area Leader WLCG (Worldwide LHC Computing Grid) Networking, 2012 – present
Member of the Open Science Grid Executive Team, 2010 – present
Member of the ATLAS International Computing Board (ICB) – 2007 - present
Member of the Scientific Computing Advisory Panel (SCAP) of the IceCube experiment, 2010 – present
Member of the Worldwide Large Hadron Collider Computing Grid Management Board, 2007 – present

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

Member of the OSG Executive Team
Conference Chair of Conference in Computing in High Energy and Nuclear Physics in 2012
DOE review panelist on CMS HI computing program
DOE review panelist on ALICE Tier-2 computing
Co-author of the 2013 Snowmass Report on the Future of Networking

Mentoring: *N/A*

Name: Michael Ernst	Institution: Brookhaven National Laboratory
Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area* *Member of the OSG Executive Team* *BNL Institutional PI*	
Current roles: *What the role is played in each functional area* *PI activities, ATLAS Experiment Liaison*	
Recent accomplishments: *Significant achievements in each functional area in the last three years.* *N/A*	
Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.* *PI activities, ATLAS Experiment Liaison*	

Name: Robert Gardner	Institution: University of Chicago	
Date of Hire: 6/1/2002	Title: Senior Fellow	FTE level: 50 *Percent on OSG*

Education: 1991, University of Notre Dame, Ph.D., Ruchti

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*

"Data Federation Strategies for ATLAS using Xrootd", with Simone Campana et al., to appear in Proc. Computing in High Energy and Nuclear Physics (CHEP '13), (2013)

"Search for dark matter candidates and large extra dimensions in events with a photon and missing transverse momentum in pp collision data at √s = 7 TeV with the ATLAS detector", (ATLAS Collaboration), Phys. Rev. Lett 110, 011802 (2013)

"Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC", ATLAS Collaboration, Phys.Lett. B716 (2012) 1-29

"Using Xrootd to Federate Regional Storage," with L Bauerdick et al. J. Phys.: Conf. Ser. 396 042009 (2012)

"Virtualization Environments for Prototyping LHC Tier-3 Clusters", with M. Mambelli et al., Proc. Computing in High Energy and Nuclear Physics (CHEP '10), (2010)

"Job Optimization in ATLAS Tag-based Distributed Analysis", with M. Mambelli et al., Computing in High Energy and Nuclear Physics (CHEP '09), J. Phys.: Conf. Ser. 219 072041 (2010)

Work History: *A list of significant leadership or management positions held over the past six years*

2014-present: Co-coordinator, ATLAS Distributed Computing Analytics
2013-present: Campus Grids Area Coordinator, Open Science Grid
2012-present: Coordinator, Federated data systems for ATLAS using Xrootd
2012-present: Coordinator, Open Science Grid Campus Infrastructures Community
2012-present: Co-Principle Investigator, Data and Software Preservation for Open Science (DASPOS)
2007-present: Manager, U.S. ATLAS Tier2 Centers and Computing Facilities Integration program
2005-present: Principal Investigator, ATLAS Midwest Tier2 Center (UChicago, Indiana, UIUC)
2006-2011: Integration and Sites Coordinator, Open Science Grid

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

CONFERENCES AND WORKSHOPS ORGANIZED:

- Accelerating International Collaboration and Science Through Connective Computation in India, The University of Chicago Center in Dehli, with CMS Tier2 Center at TIRF-Mumbai, Tier3 center at Dehli University, Fall 2014
- ATLAS Distributed Computing Technical Interchange Meeting, University of Chicago, October 2014
- Campus Infrastructures Community, Open Science Grid All Hands Meeting at SLAC, April 8, 2014
- US ATLAS Distributed Facility Workshop at SLAC, April 7, 2014
- Computing Beyond the Large Hadron Collider: Cyber Ecosystems for the Long Tail of Science in Asia, The Center in Dehli, University of Chicago, March 2014
- US ATLAS Distributed Facility Workshop at the University of Arizona, December 11-12, 2013
- Grid Computing Workshop at Duke University, August, 2013
- Campus Infrastructures Community, Open Science Grid All Hands Meeting at Indianapolis, March 2013
- US ATLAS Distributed Facility Workshop, Indianapolis, March 2013
- Campus Infrastructures Community, Open Science Grid, UC Santa Cruz, November 15-16, 2012
- US ATLAS Distributed Facility Workshop at UC Santa Cruz, November 13-14, 2012
- US ATLAS Federated Xrootd Meeting, University of Chicago, April 11-13, 2012
- US ATLAS Facilities at the OSG All Hands Conference, University of Nebraska, Lincoln, March 19-21, 2012
- US ATLAS Physics Information Frontier Planning Meeting, University of Chicago, November 9-10, 2011
- US ATLAS Facilities Workshop at Southern Methodist University, October 11-13, 2011
- US ATLAS Federated Xrootd Workshop, University of Chicago, September 12-15, 2011
- US ATLAS Meeting on Virtual Machines and Configuration Management, Brookhaven National Laboratory, June 15-17, 2011
- US ATLAS Facility Meeting at the OSG All Hands Conference, Harvard University, March 7-9, 2011
- US ATLAS Distributed Facility Workshop at the Stanford Linear Accelerator Center, October 12-14, 2010

- Second Grid Colombia-OSG Workshop, training for a national grid infrastructure for Colombia, Bucaramanga, Colombia, March 1-5, 2010
- ATLAS Tier2/Tier3 Workshop at the Open Science Grid All Hands Meeting, Fermilab, Batavia, IL, March, 2010
- OSG Campus Grids Working Meeting, Fermi National Accelerator Laboratory, January 19-20, 2010
- US ATLAS Tier 2/Tier3 Workshop at the University of Texas, Arlington, November 10-12, 2009
- Grid Colombia-OSG Workshop, training for a national grid infrastructure for Colombia, Bucaramanga, Colombia, October 26-30, 2009
- US ATLAS Tier2/Tier3 Workshop at the University of Chicago, August 19-20, 2009
- US ATLAS Distributed Facilities Meeting (Focus on the Tier 3) at the OSG All Hands Meeting, LIGO Laboratory, Livingston, LA, March 3, 2009
- OSG Site Administrators Meeting, co-located with the OSG All Hands Meeting, LIGO Laboratory, Livingston, LA, March 2, 2009
- OSG Site Administrators Meeting, Fermi National Accelerator Laboratory, December 12-13, 2008
- US ATLAS Tier2/Tier3 Workshop at Brookhaven National Laboratory, September 22-24, 2008
- US ATLAS Tier2/Tier3 Workshop at the University of Michigan, Ann Arbor, MI, May 27-29, 2008
- US ATLAS Transparent Distributed Facility Workshop, co-located with the OSG All Hands Meeting, University of North Carolina, Chapel Hill, NC, March 4, 2008
- OSG Site Administrators Meeting, Fermi National Accelerator Laboratory, March 3, 2008

GRANT REVIEW PANELS:

- National Science Foundation proposal panel review, July 2014
- U.S. Department of Energy Compact Muon Solenoid Computing Review, May 2013
- Physics at the Information Frontier, National Science Foundation, February 2013
- Advanced Scientific Computing Research, Department of Energy, April 2012
- Small Business Innovation Research, Department of Energy, 2004-2012

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*

Present: Ilija Vukotic (postdoctoral, physics), Anna Olson (doctoral candidate, CS), Rupa Kommineni (M.S. candidate, CS), Rachel Killackey (M.S. Candidate, CS); Past: Marco Mambelli (Postdoctoral, CS)

Name: Robert Gardner	Institution: University of Chicago

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*

Campus Grids: 0.5 FTE

Current roles: *What the role is played in each functional area*

Campus Grids: leadership, architectural design, integrative and coordination roles with other areas in OSG as well as external projects

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

OSG Connect: the retail login service for the OSG: http://osgconnect.net/
Stash Data Service: a transient storage service for job datasets for OSG computation, providing http, Globus Online, and POSIX access to user and project data: http://stash.osgconnect.net/
Launch of CI Connect as a general framework for delivering campus grids as a service ("CI Connect"): http://ci-connect.net/
Duke CI Connect campus-to-OSG service, and campus bridging solution: http://duke.ci-connect.net/
ATLAS Connect service: a solution for connecting users and Tier3 clusters to beyond pledge LHC resources: http://connect.usatlas.org/
Campus Infrastructures Commuinity – the forum for sharing best practices for integrating campus and national cyber-infrastructures: http://campusgrids.org/
Launch of Distributed Environment Modules with OASIS for "pre-installed" scientific applications on the OSG, providing virtual cluster look and feel.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*
Connecting Syracuse University's Condor grid to OSG Connect.
Connecting St. Louis University's campus cluster to OSG Connect.
CI Connect campus grids: CMS Connect, UMich Connect and UChicago CI Connect.
OSG Connect Services: OSG Connect 2.0

- User portal with OAuth token management (sessions)
- User focused job monitoring and accounting
- Service monitoring and alerts

Stash data management service
Support for XSEDE resource targets
New campus grids
Instrumentation of Distributed Environment Modules for user analytics
Curation of application libraries (existing user base, campus collections, XSEDE repository)
Development of co-branded Software Carpentry–OSG Bootcamps for user training in distributed scientific computation.
OSG content delivery network, for backhaul streaming and caching of user datasets to compute resources.
Integration of OSG Connect workflows with emerging data and software preservation environments (DASPOS).

Name: Gabriele Garzoglio	Institution: Fermi National Accelerator Laboratory	
Date of Hire: Feb, 2001	Title: Application Developer and System Manager	FTE level: *0.10*

Education:
2006. Ph.D. in Computer Science, DePaul University, Chicago, IL (Advisor: Ljubomir Perkovic)

Publications:
1. "Big Data Over a 100G Network at Fermilab" Gabriele Garzoglio, Parag Mhashilkar, Hyunwoo Kim, Dave Dykstra, Marko Slyz. 2014. Published in J.Phys.Conf.Ser. 513 (2014) 062017
2. "Supporting shared resource usage for a diverse user community: The OSG experience and lessons learned" Gabriele Garzoglio, Tanya Levshina, Mats Rynge, Chander Sehgal, Marko Slyz. 2012. Published in J.Phys.Conf.Ser. 396 (2012) 032046
3. "Investigation of storage options for scientific computing on Grid and Cloud facilities" Gabriele Garzoglio. 2012. Published in J.Phys.Conf.Ser. 396 (2012) 042021
4. "Identifying gaps in grid middleware on fast networks with the advanced networking initiative" Dave Dykstra, Gabriele Garzoglio, Hyunwoo Kim, Parag Mhashilkar. 2012. Published in J.Phys.Conf.Ser. 396 (2012) 032034
5. "End-To-End Solution for Integrated Workload and Data Management Using Glidein WMS and Globus Online" Parag Mhashilkar, Gabriele Garzoglio, Burt Holzman, Xi Duan, Zachary Miller, Cathrin Weiss, Rajkumar Kettimuthu, Lukasz Lacinski. Jun 25, 2012. Published in J.Phys.Conf.Ser. 396 (2012) 032076

Work History:
2013 – 2014. Head of the Grid & Cloud Services Department, Fermilab Scientific Computing Division
2009 – 2013. Associate Head of the Grid & Cloud Computing Department, Fermilab Computing Division
2005 – 2013. Head of the Distributed Offline Computing Services (formerly OSG) group, Fermilab Computing Division
2006 – 2009. VO Services Project Manager.

DOE/HEP Roles:
Reviewer: Journal of Computer Science and Engineering , Journal of Grid Computing, Transactions on Parallel and Distributed Systems, Computing in High Energy Physics
Reviewer for the SBIR grant program
Program committee member for HPDC, GridNets

Mentoring:
S. Doraimani – Thesis Co-advisor, MS in Computer Science, University of South Florida
About 2 students every year from the Illinois Institute of Technology for summer internships at Fermilab

Name: Gabriele Garzoglio	Institution: Fermi National Accelerator Laboratory
Current activities: 0.1 FTE: OSG Office of Project Management	
Current roles: Office of Project Management: Assisting with the coordination of the OSG annual work plan, staffing plan, and budget plan. Assisting with the negotiation of the annual statements of work with OSG institutions. Assist the OSG area coordinators in executing their work programs. Conduct weekly area coordinator progress review. Manage the OSG stakeholder request process.	
Recent accomplishments: Assisted with the definition and execution of the plans for the OSG project with the OSG area coordinators and institutions.	
Near future plans: Project Manager: Assist the office of project management in the definition and execution of the work plans, with a focus on stakeholders needs.	

Name: Kyle Gross	Institution: Indiana University	
Date of Hire: March 2004	Title: Operations Support Manager	FTE level: *90%*

Education: *1997-2002 Indiana University Bloomington*

Publications:
Open Science Grid (OSG) Ticket Synchronization: Keeping Your Home Field Advantage In A Distributed Environment - http://iopscience.iop.org/1742-6596/396/6/062009

Work History:

- OSG Operations Analyst
- OSG Operations Support Manager

DOE/HEP Roles:

- African School of Fundamental Physics and its Applications - Lecturer and Organizer

Mentoring: *N/A*

Name: Kyle Gross	Institution: Indiana University
Current activities: • 0.90 FTE - Operations	
Current roles: Operations Support Manager	
Recent accomplishments: • Operated OSG Operations Support Services with no SLA Exceptions • OSG PKI Transition Completed	
Near future plans: • Streamline Gratia-APEL ticketing interface • Streamline OSG PKI Procedures	

Name: Soichi Hayashi	Institution: Indiana University	
Date of Hire: 5/13/2008	Title: Software Engineer	FTE level: *80% OSG – 20% IU ODI WIYN*

Education: *only the date, institution, and advisor for the PhD or highest degree held.*
Henderson State University, Arkadelphia, Arkansas

Bachelors of Computer Science and Mathematics 2001

Bachelors of Physics 2001

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*

1. Soichi Hayashi, Arvind Gopu and Robert Quick. “GOC-TX: A Reliable Ticket Synchronization Application for the Open Science Grid” 2011 J. Phys.: Conf. Ser. 331 082013 doi:10.1088/1742-6596/331/8/082013
2. Arvind Gopu, Soichi Hayashi, Robert Quick. "MyOSG: a user-centric information resource for OSG infrastructure data sources." 01/2009; DOI:10.1145/1658260.1658276
3. Quick, R., Gopu, A., and Hayashi, S. (2009). RSV: OSG Fabric Monitoring and Interoperation with WLCG Monitoring Systems. Presented at CHEP 2009 (Computing in High Energy and Nuclear Physics), Prague, Czech Republic, March 21-27, 2009.

Work History: *A list of significant leadership or management positions held over the past six years.*

- Grid Operations Center Developer, 2008 - present

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*
No direct supervision of students or post-docs. Work often involves direct interaction with them and the software and services developed has direct impact on their research.

Name: Soichi Hayashi	Institution: Indiana University

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*

- 20% Perfsonar central datastore
- 20% Configuration management. Production and ITB release management.
- 15% handling technical requests from OSG users and stakeholders.
- 5% enabling bioinformatics applications to run on OSG/DHTC through Galaxy portal.
- 5% CILogin integration to OSG. Handling GOC tickets.
- 15% other various technical / development tasks for OSG support team.
- 20% non-OSG Work related to ODI / WIYN projects.

Current roles: *What the role is played in each functional area*

Senior Software Engineer for OSG Operations infrastructure team

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

- Enabled NCBI/Blast workflow to be submitted to OSG and DHTC environment.
- Implemented all features required for OSG PKI system.
- Upgraded most of operation services to RHEL6.
- Handled alerts and troubleshoot existing and potential issues to provide >99% service availability on most services.
- Engineered and implemented high-availability systems for OSG operations.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*

- Implement various Perfsonar end-users services by aggregating data gathered by central datastore.
- Continue to provide stable services hosted at OSG operations.
- Implement other DHTC workflows for often executed / requested scientific applications.
- Modernize Operations center's VM infrastructure to run more services more efficiently with lower overhead for upgrading / disaster recovery.
- Standup OSG IdP for CILogon authentication.

Name: Edgar Mauricio Fajardo Hernandez	Institution: University of California San Diego	
Date of Hire: October 2013	Title: Programmer Analyst 3	FTE level: *100%*

Education:

- *2011* **B.S in Mathematics**, *Department of Mathematics*, Universidad de los Andes, Bogota, Colombia.
- 2009 **B.S in Computer Science** , *Department of Computer Engineering*, Universidad de los Andes, Bogota, Colombia.

Publications:

- I Dzhunov, J Andreeva, E Fajardo, O Gutsche, S Luyckx, and P Saiz, *Towards a centralized grid speedometer*, Journal of Physics: Conference Series **513** (2014), no. 3, 032028.
- E Fajardo, O Gutsche, S Foulkes, J Linacre, V Spinoso, A Lahiff, G Gomez-Ceballos, M Klute, and A Mohapatra, *A new era for central processing and production in cms*, Journal of Physics: Conference Series **396** (2012), no. 4, 042018
- Edgar Fajardo and Daniel Pomarède, *Interactive visualization of shadow effects in the planetary system of saturn, its rings and its moons using an opengl shader in idl*, ADASXXI, vol. 461, Astronomical Society of the Pacific Conference Series, 2011, p. 801.
- Daniel Pomarède, Edgar Fajardo Hernandez, Andre Brahic, Sebastien Charnoz, Cecile Ferrari, and Bruno Thooris, *Exploratory visualization of saturn, its ring and moons with sdvision.*, CGIV (Ebad Banissi and Muhammad Sarfraz, eds.), IEEE, 2011, pp. 170–176

Work History:

October 2013 – Today: Software developer at OSG Software and Technology area.

April 2011 – October 2013: I worked at CERN in the CMS experiment appointed as the Workflow Team leader. The main objective is to operate the central processing and production workflows using all CMS Computing Resources in the production and processing of CMS MonteCarlo and Data.

This implied running, monitoring and troubleshooting 100 thousand parallel running jobs, running at 60 different computing centers located all around the world and producing 10PB of data per year.

As team leader I was also in charge of coordinating a set of worldwide distributed operators (United States, Belgium and CERN) in order to achieve almost 24 hour coverage at monitoring of the production system. This involved but was not limited to managing and chairing weekly meetings, coordination of shift schedules and developing scripts and monitoring tools to support the daily operations of the team.

DOE/HEP Roles: *N/A*

Mentoring: *N/A*

Name: Edgar Mauricio Fajardo Hernandez	Institution: University of California San Diego

Current activities:

OSG Technology/Software: 100%

Current roles:

- OSG Technology/Software: Software developer

Recent accomplishments:

- Designed, implemented, and maintained software build system
- Helped sites implement major software version changes
- Maintained several OSG software components that are used at OSG sites
- Packaged and maintained packaging of many software components that are used at OSG sites
- Provided support for OSG site administrators

Near future plans:

- Support sites that provide resources to the LHC and other DHTC science users
  - Package and update software components that are used at OSG sites
  - Maintain OSG software components that are used at OSG sites
  - Maintain and improve the software build system to support stakeholder needs
  - Support sites through major operating system and other platform upgrades
  - Support sites through significant changes to the OSG architecture
- Encourage more sites to provide resources by improving the usability of OSG software
  - Improve software, packaging, and documentation for better usability
  - Evaluate the effects of major software changes before sites deploy them
  - Create, maintain, and use automated tests of the integrated OSG software system

Name: Kevin Hill	Institution: Fermi National Accelerator Laboratory	
Date of Hire: July 2001 (started OSG 2012)	Title: Computing Services Specialist	FTE level: 80%
Education: *Attended the University of Illinois*		
Publications: *No publications, several talks given on OSG security.*		
Work History: 2012-present: OSG security team member		
DOE/HEP Roles:		
Mentoring:		

Name: Kevin Hill	Institution: Fermi National Accelerator Laboratory
Current activities: 80% OSG security team	
Current roles: Handle operational security for the OSG. Handle security incidents. Monitor software vulnerabilities and issue advisories as needed. Perform security related training. Perform security drills.	
Recent accomplishments: Transitioned OSG certificate usage from DOEGrids CA to OSG CA. Traceability project allows sites to submit jobs from trusted hosts without requiring x509 certificates.	
Near future plans: Continue expanding traceability project. Investigate ways to take advantage of federated logins to simply end-user OSG experience.	

Name: John Hover	Institution: Brookhaven National Laboratory	
Date of Hire: September 6, 2005	Title: Group Leader	FTE level: *50%*

Education:

M.S. Computer Science, Stony Brook University 2005

Publications:

OASIS: a data and software distribution service for Open Science Grid
B Bockelman, J Caballero Bejar, J De Stefano, J Hover, R Quick, S Teige
Journal of Physics Conference Series 06/2014; 513(3):032013.

AutoPyFactory: A scalable flexible pilot factory implementation.
ATLAS Collaboration, Caballero, J. and Hover, J. and Love, P. and Stewart, G.A.
Journal of Physics Conference Series 396 (2012) 032016

PanDA Pilot Submission using Condor-G: Experience and Improvements.
Xin Zhao, John Hover, Tomasz Wlodek, Torre Wenaus, Jaime Frey, Todd Tannenbaum, Miron Livny
Journal of Physics Conference Series 12/2011; 331(7):072069.

Bringing Science and Engineering to the Classroom using Mobile Computing and Modern Cyberinfrastructure.
Mónica F. Bugallo, Michael Marx, David Bynum, Helio Takai, John Hover
International Conference on Computer Supported Education, 2009

Definition and Implementation of a SAML-XACML Profile for Authorization Interoperability Across Grid Middleware in OSG and EGEE.
Gabriele Garzoglio et. al.
Journal of Grid Computing, Volume 7, Issue 3, Year 2009.

Work History:

Group Leader in RHIC/ATLAS Computing Facility (RACF) at BNL.
Research and development for next-generation ATLAS and OSG software systems (e.g. cloud, virtualization, etc.)
Architect and developer for AutoPyFactory pilot submission and cloud coordination software.
Systems administration at RACF (GUMS, Subversion, VOMS, Pilot submission system, certificate management, etc.).
Department cybersecurity representative/liason.
ATLAS VO representative for the US and OSG.

DOE/HEP Roles:

Mentoring:

Name: John Hover	Institution: Brookhaven National Laboratory

Current activities:
OSG Software: 25%
OSG Technology Investigations: 25%

Current roles:
Blueprint activity coordinator, within the Technology area.
Oversee BNL contributed effort to OSG Software and Technology areas.
General admin/support, within OSG Software.
General admin/analyst, within OSG Technology Investigations.
Some software development for the OASIS project.

Recent accomplishments:
Organized and ran eight Blueprint face-to-face meetings since 2012.
Oversaw and assisted in OASIS design and development, and deployment of ITB site for testing.
Contributed to discussion and documentation of an OSG Provisioning strategy.
Served as ATLAS representative for Digicert contract renegotiation.

Near future plans:
Continue generalizing cloud and virtualization utilities and systems for usage by OSG stakeholders.
Continue the Blueprint process, in particular determining OSG's long-term strategy for provisioning.
Assisting with deployment of new OASIS versions.
Enable OSG to deploy AutoPyFactory as a system complementary to GlideinWMS, beginning at University of Wisconsin with the Condor team (in progress).

Name: Tanya Levshina	Institution: Fermi National Accelerator Laboratory	
Date of Hire: 8/25/1997	Title: Application Developer and System Analyst IV	FTE level: *0.25*

Education: M.S Applied Mathematics, Gubkin Russian State University of Oil and Gas, June 1981

Publications:

"Public Storage for the Open Science Grid", T.Levshina and A. Guru, Journal of Physics Conference Series 06/2014; 513(3):032057. DOI:10.1088/1742-6596/513/3/032057

"Grid accounting service: state and future development", T. Levshina, C. Sehgal, B. Bockelman, D. Weitzel, A. Guru, Journal of Physics Conference Series 06/2014; 513(3):032056. DOI:10.1088/1742-6596/513/3/032056

"Supporting Shares Resource Usage for a Diverse User Community: the OSG Experience and Lessons Learned", G. Garzoglio, T. Levshina, M. Rynge, C. Sehgal, M. Slyz, Journal of Physics Conference Series 12/2012; 396(3):2046-. DOI:10.1088/1742-6596/396/3/032046

"High Throughput WAN Data Transfer with Hadoop-based Storage", A. Amin, B. Bockelman, J. Letts, T. Levshina, T. Martin, H. Pi, I. Sfiligoi, M. Thomas, F. Wüerthwein, Journal of Physics Conference Series 12/2011; 331(5):052016. DOI:10.1088/1742-6596/331/5/052016

"Adoption of SAML-XACML Profile for Authorization Intoreperability across Grid Middleware in OSG and EGEE", G. Garzoglio, J. Bester, K. Chadwick, D. Dykstra, D. Groep, J. Gu, T. Hesselroth, O. Koeroo, T. Levshina, S. Martin, M. Salle, N. Sharma, A .Sim, S. Timm, A. Verstegen, 12/2011; 331(6):062011. DOI:10.1088/1742-6596/331/6

"VOMS/VOMRS utilization patterns and convergence plan "A Ceccanti, V Ciaschini, M Dimou, G Garzoglio, T Levshina, S Traylen[2] and V Venturi Journal of Physics Conference Series 12/2010; 219(6):062006 DOI:10.1088/1742-6596/219/6/062006

"SVOPME: A scalable virtual organization privileges management environment" G. Garzoglio, N. Wang, I. Sfiligoi, T. Levshina, B. Ananthan Journal of Physics Conference Series 05/2009; DOI: 10.1088/1742-6596/331/6/062046

Work History:

October 2013 to present	Group Leader, Projects Leader, Scientific Computing Division, Fermi National Accelerator Laboratory
February 2008 to October 2013	Associate Group Leader, Projects Leader, Scientific Computing Division, Fermi National Accelerator Laboratory

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*

Name: Tanya Levshina	Institution: Fermi National Accelerator Laboratory
Current activities: *0.25 OSG User Support Team Member*	
Current roles: Participate in the work of the User Support Team. Help members of science and research communities to run grid jobs in the OSG DTHC computation resource. Responsible for designing and developing the OSG Public Storage service. Coordinate efforts to improve accuracy of accounting information for the OSG Campus Grids.	
Recent accomplishments: Helped researchers from the Indiana University Galaxy project to use the OSG Public Storage to run jobs that used BLAST bioinformatics database sequences. Provided various new accounting reports for OSG Campus Grids.	
Near future plans: Provide a production release of the OSG Public Storage. Continue to work on scalability and reliability of the service. Grow the user base for the OSG Public Storage Service. Continue work on improving accounting for OSG Campus Grids.	

Name: Brian Lin	Institution: University of Wisconsin–Madison	
Date of Hire: February 2013	Title: Associate Systems Programmer	FTE level: 100%

Education: 2010, Bachelor of Science, McGill University

Publications: [none]

Work History:

- 2010–2013: Weather Central LLC, Software Support and Testing
- 2013–current: University of Wisconsin–Madison, OSG Software Developer

DOE/HEP Roles: [none]

Mentoring: [none]

Name: Brian Lin	Institution: University of Wisconsin–Madison

Current activities:

- OSG Technology / Software: 0.5 FTE
- OSG Technology / Release: 0.5 FTE

Current roles:

- OSG Technology / Software: Software developer and tester
- OSG Technology / Release: Release tester

Recent accomplishments:

- Designed, implemented, and maintained software testing system
- Performed acceptance testing of OSG software components that are used at OSG sites
- Maintained several OSG software components that are used at OSG sites
- Distributed new versions of OSG software components to OSG sites
- Packaged and maintained packaging of many software components that are used at OSG sites
- Provided support for OSG site administrators

Near future plans:

- Maintain and enhance OSG software and packaging to support OSG sites
- Support OSG sites as they deploy and use OSG software
- Create, maintain, and run automated tests of the integrated OSG software system
- Test OSG software and packaging thoroughly before production releases
- Release OSG software packages for production use at OSG sites

Name: Miron Livny	Institution: University of Wisconsin -Madison	
Date of Hire: 08/1983	Title: Professor	FTE level: 0.*25 FTE*

Education:
Ph.D. Computer Science, Weizmann Institute of Science, Rehovot, Israel. February 1984. Myron Melman

Publications:

1. "High-Throughput Computer Vision Introduces the Time Axis to a Quantitative Trait Map of a Plant Growth Response". Candace R Moore, Logan S Johnson, Il-Youp Kwak, Miron Livny, Karl W Broman, Edgar P Spalding. Genetics 2013 Nov 26;195(3):1077-86. Epub 2013 Aug 26.
2. "Uncovering CPU load balancing policies with harmony". Joseph T. Meehean, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, Miron Livny. Proceedings of the ACM International Conference on Computing Frontiers; 05/2013
3. "High-resolution human genome structure by single-molecule analysis". Brian Teague, Michael S Waterman, Steven Goldstein, Konstantinos Potamousis, Shiguo Zhou, Susan Reslewic, Deepayan Sarkar, Anton Valouev, Christopher Churas, Jeffrey M Kidd, Scott Kohn, Rodney Runnheim, Casey Lamers, Dan Forrest, Michael A Newton, Evan E Eichler, Marijo Kent-First, Urvashi Surti, Miron Livny, David C Schwartz. Proceedings of the National Academy of Sciences 06/2010; 107(24):10848-53.
4. "Pseudo-interactive monitoring in distributed computing". I Sfiligoi, D Bradley, M Livny. Journal of Physics Conference Series 05/2009;
5. "High-throughput, kingdom-wide prediction and annotation of bacterial non-coding RNAs". Jonathan Livny, Hidayat Teonadi, Miron Livny, Matthew K Waldor PLoS ONE 02/2008; 3(9):e3197.

Work History:

1. Director of the UW Center for High Throughput Computing
2. CTO of the Morgridge Institute for Research
3. Director of the Core Computational Technologies area at the Wisconsin Institute for Research
4. Professor of Computer Sciences University of Wisconsin-Madison

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*

Name: Miron Livny	Institution: University of Wisconsin -Madison

Current activities:

OSG Principal Investigator 5%

OSG Technical Director 20%

Current roles:

As the NSF PI of the OSG project I am responsible for the formal interaction between the project and the NSF.

As the Technical Director of the OSG I am involved in developing the vision, the goals and the objectives of the OSG project, establishing and implementing the technical principles that guide the project and supporting the technology area.

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

Near future plans:

Continue to lead the OSG project in advancing and promoting the adoption of Distributed High Throughput Computing technologies and effectively responding to the continuous changes in requirements, computing technologies and organizational structures.

Name: Shawn McKee	Institution: University of Michigan	
Date of Hire: June 1, 2012	Title: OSG Network AC	FTE level: *0.25*

Education: *1991, Ph.D., Physics, University of Michigan, Advisor: Greg Tarle*

Publications: **Monitoring the US ATLAS Network Infrastructure with perfSONAR-PS**, McKee, S., A. Lake, et al., J. Phys.: Conf. Ser. 396 (2012). **Deployment of a WLCG network monitoring infrastructure based on the perfSONAR-PS technology**, Campana S., et.al., 20th International Conference on Computing in High Energy and Nuclear Physics (CHEP 2013), October 2013, DOI: 10.1088/1742-6596/513/6/062008, **A search for prompt lepton-jets in pp collisions at √s = 7 TeV with the ATLAS detector**, ATLAS Collaboration, Physics Letters B 719 (2013) 299-317.
Search for Dark Matter in Events with a Hadronically Decaying W or Z Boson and Missing Transverse Momentum in SQRT(s) at 8 TeV with the ATLAS Detector, Aad, G., et al. (2014), Physical Review Letters 112(4): 041802.
Integrating Network Awareness in ATLAS Distributed Computing*, De, K.,et.al., To be published in the conference proceedings for the International Symposium on Grids and Clouds 2014, Taipei, Taiwan.*

Work History:
2009- Research Scientist, University of Michigan Physics
2004-2008 Associate Research Scientist, University of Michigan Physics

DOE/HEP Roles:

2012-	WLCG Co-Chair for perfSONAR-PS Deployment
2012-	OSG Area Coordinator for Networking
2006-	Director of US ATLAS Great Lakes Tier-2 Computing Center
2002-	Member of ICFA SCIC Sub-Committee on Monitoring
2001-	Network Project Manager, US ATLAS
2001-	Co-Chair, HENP Internet2 Working Group

DOE review panelist 2008-2010, Member LHC Tier-2 Requirements Working Group 2010-11, Chair, US LHC Networking Requirements Working Group 2011-12, hosted International HEPiX Fall 2013 meeting in Ann Arbor.

Mentoring: In the last 6 years Dr. McKee has trained 7 undergraduates, 1 PhD student and 1 post-doc. Seven of the undergraduates worked on Tier-2 projects in the areas of networking, job-scheduling, monitoring, node provisioning and infrastructure management. One of these undergraduates (Yuan Cao) was truly outstanding and was accepted in Spring 2014 into MIT's graduate program in computer science at the age of 18. The PhD student (Wenjing Wu) worked closely with McKee for two years, gathering research material for her PhD in computer science at IHEP and McKee served on her PhD committee. She is now an assistant research professor at IHEP. The post-docs worked closely with McKee and transitioned to successful careers at Ford Research Laboratory.

Name: Shawn McKee	Institution: University of Michigan

Current activities:
Dr. McKee is the OSG Networking Area Coordinator at 0.25 FTE.

Current roles:
Dr. McKee leads the networking effort for OSG.

Recent accomplishments:
Pioneered the use of perfSONAR in HEP, starting with US ATLAS Tier-2 sites. Lead WLCG perfSONAR-PS Toolkit deployment effort to get all WLCG sites to deploy and configure perfSONAR for WLCG (and OSG) use. Deployment completed at 105 out of 113 WLCG sites by April 2014 and 6 of the missing 8 have since made progress in completing their deployments. Developed infrastructure to allow central management and monitoring of OSG and WLCG perfSONAR instances. Developed prototype monitoring and visualization instances and deployed prototypes in OSG operations. Led the user community effort to improve and harden perfSONAR-PS toolkit instances to make them easier to deploy and more robust in operation.

Near future plans:
Completing the deployment of perfSONAR-PS OSG-wide, once v3.4 is available in Fall 2014, integrating non-WLCG OSG site.
Creation of an OSG network datastore capable of storing all gathered network metrics from OSG and WLCG and providing them to users and higher level services (alerting, alarming, visualization, network middle, network researcher).
Enabling alarming and problem analysis based upon network metric analysis.
Improving network metric data visualization to better display the OSG network status based upon user feedback.
Improving tools and documentation from the perspective of the user.

Name: Anand Padmanabhan	Institution: University of Illinois at Urbana-Champaign (UIUC)	
Date of Hire:7/1/2007	Title: Senior Research Scientist	FTE level: *50%*

Education: *only the date, institution, and advisor for the PhD or highest degree held.*

Ph.D. Computer Science, University of Iowa, Dec 2006 (Advisor: Profs. Sukumar Ghosh, Shaowen Wang)

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*

[1] **Padmanabhan, A**., Wang, S., Cao, G., Hwang, M., Zhang, Z., Gao, Y., Soltani, K., and Liu, Y.Y. 2014. FluMapper: A CyberGIS Application for Interactive Analysis of Massive Location-based Social Media. *Concurrency and Computation: Practice and Experience*, http://dx.doi.org/10.1002/cpe.3287.

[2] Liu, Y.Y., **Padmanabhan, A**., and Wang, S. 2014. CyberGIS Gateway for Enabling Data-Rich Geospatial Research and Education. Concurrency and Computation: Practice and Experience, http://dx.doi.org/10.1002/cpe.3256.

[3] **Padmanabhan, A.**, Youn, C., Hwang, M., Liu, Y., Wang, S., Wilkins-Diehr, N., and Crosby, C. 2013. Integration of Science Gateways: A Case Study with CyberGIS and OpenTopography. In Proceedings of *XSEDE 2013: Extreme Science and Engineering Discovery Environment: Gateway to Discovery*, Jul 22-25 2013, San Diego, CA, USA.

[4] **Padmanabhan, A.**, Wang, S., and Navarro, J-P. A CyberGIS gateway approach to interoperable access to the National Science Foundation TeraGrid and the Open Science Grid. In: *Proceedings of TeraGrid 2011* Conference: Extreme Digital Discovery, Salt Lake City, UT, July, 2011.

[5] **Padmanabhan, A.,** Ghosh, S., and Wang, S. 2010. "A Self-Organized Grouping (SOG) Framework for Efficient Grid Resource Discovery." *Journal of Grid Computing*. 8(3): 365-389.

Work History: *A list of significant leadership or management positions held over the past six years.*

2014 - Present	Senior Research Scientist, NCSA and Department of Geography and Geographic Information Science, School of Earth, Society, and Environment, UIUC
2013 - Present	Program Coordinator, CyberGIS Center for Advanced Digital and Spatial Studies, UIUC
2007-2014	Research Scientist, Department of Geography and Geographic Information Science, School of Earth, Society, and Environment, UIUC

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

Program Chair ACM SIGSPATIAL HPDGIS 2011, Communication Chair ACM SIGSPATIAL HPDGIS 2010, Program Committee Member for following: CyberGIS Symposium at @ AAG 2013 and @ AAG14, CyberGIS'14, CyberGIS'12, MAT4GIScience 2012, 1st International Conference on Parallel, Distributed and Grid Computing, GridNets 2007, 2009, 2010, International Workshop on Web-based Internet Computing for Science and Engineering, 2006. Reviewer for following journals: GeoInfomatica, International Journal of Geographical Information Science, Journal of Grid Computing, International Journal of Digital Earth, Conservation Letters.

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*

Yizhao Gao, Kiumars Soltani, and Yanli Zhao (UIUC)

Name: Anand Padmanabhan	Institution: University of Illinois at Urbana-Champaign

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*

OSG Security (0.5 FTE)

Current roles: *What the role is played in each functional area*

a) Evaluating the security of VO job submission frameworks with the intent of allowing certificate-free job submissions when it is deemed operationally secure.
b) Contributing to develop new capabilities and trust models to lessen the necessity of user certificates for job execution and data transfers.
c) Incident Drills and Security Training.
d) Troubleshooting; processing security tickets including user requests, change requests from stakeholders, and technical problems.
e) Conducting risk assessments and executing the OSG Security Plan.
f) Preparing CA releases (IGTF), modifying security related parts of the OSG software as needed to reflect the changing security infrastructure and environment.
g) Designing and implementing new capabilities in OSG Software stack that are deemed necessary for secure operation of OSG.

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

1. In coordination the WLCG CMS Security Challenge conducted drills on 10 CMS Tier 2 sites.
2. Conducted security drills on a number of smaller OSG sites (tier3 equivalents)
3. Through extensive testing and validation of OSG software stack (a) coordinated the successful and transparent transition to certificates signed using SHA2 algorithm; and (b) managed seamless changeover of IGTF CA package need to support openssl 1.0.x.
4. Evaluated traceability of end-user jobs without end-user certificates specifically using GlideinWMS by conducting traceability tests which involved OSG sites, Glidein frontend and factory operators. The findings from these tests were laid out in a document which outlines the requirements and assesses the potential risks and mitigation. A resulting scientific publication on certificate-free job submission and traceability in GlideinWMS systems was accepted and presented at ISGC 2014. This effort has facilitated increased opportunistic of OSG resources by authorized VOs.
5. Audited OSG and GLOW VO to ensure they meet traceability requirements.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*

1. Develop traceability and trust relationship models that can reduce dependency on PKI. For traceability of end-user jobs without certificates (a) document changing trust models; (b) develop a guidance document for the VOs; and (c) invite additional VOs to take advantage of certificate-free job submission mode. Investigate and implement (if feasible and desired by VOs) certificate-free access to data delivery and storage services.
2. Conduct security drill (including jobs submitted via glide-ins, HTCondor-CE).
3. Continue risk assessments and executing the OSG Security Plan.
4. Create regular CA releases reflecting the needs of OSG security infrastructure.
5. Troubleshoot technical problems from assigned OSG security tickets.

Name: Ruth Pordes	Institution: Fermi National Accelerator Laboratory	
Date of Hire: 2006	Title: OSG Council Chair	FTE level: *0.2 Contribution*

Education: *only the date, institution, and advisor for the PhD or highest degree held.*

- 1970 MA Physics Oxford University, England.

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*

- Analysis of the current use, benefit, and value of the Open Science Grid, R Pordes *et al* 2010 *J. Phys.: Conf. Ser.* 219 062024.
- New science on the Open Science Grid. Ruth Pordes *et al.* Published in J.Phys.Conf.Ser.125:012070,2008.
- The Open Science Grid status and architecture. Ruth Pordes *et al.* Presented at International Conference on Computing in High Energy and Nuclear Physics (CHEP 07), Victoria, BC, Canada, 2-7 Sep 2007. Published in J.Phys.Conf.Ser.119:052028,2008.
- Challenges facing production grids. Ruth Pordes (Fermilab). FERMILAB-PUB-07-323-CD, Jun 2007. 16pp. Chapter in the book "High Performance Computing and Grids in Action"

Work History: *A list of significant leadership or management positions held over the past six years.*

- OSG Council Chair 2012-ongoing.
- OSG Executive Director 2006-2012.
- Associate Head Fermilab Scientific Computing Division 2012-ongoing.
- Chair of the Advisory Bord of the International Science Grid This Week 2014-ongoing.
- Chair of the CyberInfrastructure Sub-committee of the Network for Earthquake Engineering (NEESComm) Project Advisory Committee 2010-ongoing.
- Member of the Scientific Advisory Board for the Institut De Grid France 2011-ongoing.
- Member of the EGI-InSPIRE External Advisory Committee 2000-2014.

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

- Member of the Accelerating Science through Knowledge Discovery (ASKD) ASCR working group and organizer of 2012 workshop.

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*

Name: Ruth Pordes	Institution: Fermi National Accelerator Laboratory

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*

- Chair of the OSG governing Council. This and all council members efforts are contributed by the member organizations.

Current roles: *What the role is played in each functional area*

- Organization of the Council oversight of the OSG Project, quarterly Council meetings, and action item follow through.

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

- Increase of the diversity of Council member representation of the Consortium.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*

- Continue to make the Council truly representative of the Consortium members' needs.
- Continue to have the Council effectively aid the project and satellites in meeting the wider goals and vision of the organization.

Name: Robert Quick	Institution: Indiana University	
Date of Hire: July, 2000	Title: • OSG Production, Operations and Communication Area Coordinator • Indiana University High Throughput Computing Group Manager • Software Assurance Marketplace Operations Manager	FTE level: *80% OSG* – 10% IU HTC* **35% funded by OSG*

Education: *only the date, institution, and advisor for the PhD or highest degree held.*
Purdue University School of Science, Bachelors of Physics 2005

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*

1. The Open Science Grid,Ruth Pordes , Don Petravick , Bill Kramer , Doug Olson , Miron Livny , Alain Roy , Paul Avery , Kent Blackburn , Torre Wenaus , Frank Würthwein , Ian Foster , Rob Gardner , Mike Wilde , Alan Blatecky , John McGee and Rob Quick , 2007 *J. Phys.: Conf. Ser.* **78**
2. The Open Science Grid Status and Architecture, R Pordes , D Petravick , B Kramer , D Olson , M Livny , A Roy , P Avery , K Blackburn , T Wenaus , F Würthwein , I Foster , R Gardner , M Wilde , A Blatecky , J McGee and R Quick , 2008 *J. Phys.: Conf. Ser.* **119** 052028
3. New Science on the Open Science Grid, R Pordes , M Altunay , P Avery , A Bejan , K Blackburn , A Blatecky , R Gardner , B Kramer , M Livny , J McGee , M Potekhin , R Quick , D Olson , A Roy , C Sehgal , T Wenaus , M Wilde and F Würthwein 2008 *J. Phys.: Conf. Ser.* **125** 012070
4. Distributed Monitoring Infrastructure for Worldwide LHC Computing Grid, P Andrade, M Babik, K Bhatt, P Chand, D Collados, V Duggal, P Fuente, S Hayashi, E Imamagic, P Joshi, R Kalmady, U Karnani, V Kumar, W Lapka, R Quick, J Tarragon, S Teige and C Triantafyllidis 2012 J. Phys.: Conf. Ser. 396 032002 doi:10.1088/1742-6596/396/3/032002
5. The event notification and alarm system for the Open Science Grid Operations Center, S Hayashi, S Teige and and R Quick 2012 J. Phys.: Conf. Ser. 396 032105 doi:10.1088/1742-6596/396/3/032105

Work History: *A list of significant leadership or management positions held over the past six years.*

- Open Science Grid Production, Operations and Communication Area Coordinator
- Indiana University Manager of High Throughput Computing

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

- Open Science Grid Council – Alternate Member
- African School of Fundamental Physics and its Applications - Lecturer and Organizer
- European Grid Infrastructure External Advisory Committee
- WLCG Middleware Readiness Working Group
- Open Science Grid All Hands Meeting 2013 Local Organizer
- Planning Committee OSG All Hands Meeting 2014

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*

Name: Robert Quick	Institution: Indiana University

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*

0.80 FTE – Production, Operations, and Communication

Current roles: *What the role is played in each functional area*

OSG Area Coordinator for Production, Operations and Communication and Indiana University Co-PI.

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

- Operated OSG Operations Services with no SLA Exceptions
- OSG PKI Transition
- OASIS Service Implementation
- Full EGI Interoperability for non-HEP VO

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*

Reorganization of OSG web presence
Maintaining stable operations of infrastructure and support services during LHC Run 2
Evolving operational model of OSG-Connect
Adoption of new infrastructure services and determined by stakeholder request
Evolving OSG PKI to use CILogon credentials

Name: Mats Rynge	Institution: USC / Information Sciences Institute	
Date of Hire: 11/30/2009	Title: Computer Scientist	FTE level: *50%*

Education: *Bachelor of Science, Computer Science, UCLA, Los Angeles, 2002*

Publications:

- Mats Rynge, Gideon Juve , Jamie Kinney , John Good, Bruce Berriman, Ann Merrihew, and Ewa Deelman. *Producing an Infrared Multiwavelength Galactic Plane Atlas using Montage, Pegasus and Amazon Web Services*. 23rd Annual Astronomical Data Analysis Software and Systems (ADASS) Conference.
- Karan Vahi, Mats Rynge, Gideon Juve, Rajiv Mayani, and Ewa Deelman. *Rethinking Data Management for Big Data Scientific Workflows*. Workshop on Big Data and Science: Infrastructure and Services, 2013
- Gideon Juve, Mats Rynge, Ewa Deelman, Jens-S. Vockler, G. Bruce Berriman. *Comparing FutureGrid, Amazon EC2, and Open Science Grid for Scientific Workflows*. Computing in Science and Engineering, 15:4, pp. 20-29, 2013.

Work History:
Computer Scientist, USC / Information Sciences Institute, Science Automation Technologies Group, 2009-Present
Software Configuration Manager, Renaissance Computing Institute (RENCI), 2006-2009
Programmer Analyst III, USC / Information Sciences Institute, Center for Grid Technologies, 2003-2006

DOE/HEP Roles:

Mentoring:
Mentor members of the OSG User Support team to learn the OSG environment and become effective contributors.

Name: Mats Rynge	Institution: USC / Information Sciences Institute

Current activities:
0.50 FTE – User Support

Current roles:

- Technical lead for the OSG interface with the XSEDE project; a key goal is to maintain OSG as a XD service provider and coordinate activities to ensure effective service delivery for all XSEDE Users of OSG.
- Key contributor to the OSG User Support function by helping plan and deliver support for existing/new VOs and researchers/scientists who want to "join" OSG and benefit from use of HTPC principles and resources.

Recent accomplishments:

- Planned and integrated OSG into XSEDE as an XD level 2 service provider
- Administered the OSG-XSEDE infrastructure, including the osg-flock host which enables not only the OSG-XSEDE interface, but also submit hosts at the OSG-Connect level and submit hosts on campuses
- Provided support for new and existing communities and users in identifying and resolving issues affecting their ability to use OSG for their science mission.

Near future plans:

- Continue to administer and evolve the OSG-XSEDE submit host to ensure effective service delivery for all XSEDE Users of OSG. Partner with appropriate teams in the XSEDE project to grow the collaboration between OSG and XSEDE and create awareness of the value delivered by OSG and DHTC frameworks.
- Continue to refine the methods, guidelines, and documentation to enable XSEDE Users to effectively use OSG
- Support OSG work to develop joint plans with the ACI-REFs enabling more campus researchers to use OSG DHTC.

Name: Chander Sehgal	Institution: Fermi National Accelerator Laboratory	
Date of Hire: Jan 2, 2007	Title: OSG Project Manager	FTE level: *0.8*

Education:

1974: Stanford University; MS Computer Engineering

Publications:

- "Supporting shared resource usage for a diverse user community: The OSG experience and lessons learned", G. Garzoglio, T. Levshina, M. Rynge, C. Sehgal, M. Slyz. 2012. Published in J.Phys.Conf.Ser. 396 (2012) 032046
- "The Open Science Grid - Support for Multi-Disciplinary Team Science - the Adolescent Years" OSG Collab. (Lothar Bauerdick et al.). 2012. Published in J.Phys.Conf.Ser. 396 (2012) 042048
- "A Science driven production cyberinfrastructure: the Open Science Grid" OSG Collab. (M Altunay et al.). Jul 2010. Published in J.Grid Comput. 9 (2011) 201-218

Work History:

2008-2014: OSG Project Manager

2010-2014: OSG User Support Area Coordinator

DOE/HEP Roles:

Mentoring:

Name: Chander Sehgal	Institution: Fermi National Accelerator Laboratory

Current activities:

0.5 FTE: OSG Project Manager
0.3 FTE: OSG User Support Lead

Current roles:

Project Manager: Responsible for coordinating the OSG annual work plan, staffing plan, and budget plan. Negotiate annual statements of work with each institution and assist the OSG area coordinators in executing their work programs; track budget use and resolve issues. Conduct weekly area coordinator progress review calls to monitor work plan progress, identify issues, and coordinate corrective actions, if needed. Also serve as the editor for the OSG annual report to NSF and DOE.

User Support Lead: Coordinate the work of the User Support team (3.0 FTE across 6 staff) in enabling science and research communities from their initial introduction to the OSG to production use of the DHTC services and to provide ongoing support for existing communities' evolving needs. The work of this team covers the creation of new capabilities based on user needs, enabling new communities in joining OSG, and enabling access for US researchers to OSG DHTC computation resources.

Recent accomplishments:

Project Manager: Assured well understood plan and processes to enable a team of ~40 staff (~27 FTE) dispersed over 10-12 institutions to effectively collaborate on the OSG project.

User Support Lead: The User Support continued to assist new communities in learning about and joining OSG. This team established OSG as a level 2 Service Provider to XD and provided high quality DHTC service – OSG pledges 2M wall hours per quarter to the XRAC process. In the last 2 years, we have grown the opportunistic pool available to US researchers who are not part of an existing VO and need access to DHTC resources; in the last year ~62M wall hour were provided to ~40 PIs. As part of this we established easier methods for PIs and research groups to access OSG DHTC by providing login nodes and an easier to use "on-ramp" for community connections to the OSG.

Near future plans:

Project Manager: Continue to provide a sound framework for a well-organized project that can effectively execute its work program to address the needs of stakeholders and enable collaborative science in the US.

User Support Lead: Grow the OSG open facility that provides access to the opportunistic cycles. This involves: 1) research to understand the opportunistic eco-system; 2) implement process and technology to harvest more opportunistic cycles; 3) grow the user base via outreach to campus communities and via the ACI-REFs project; and 4) coordinate better accounting methods to understand the science being done in OSG as a whole and at any resource. In addition, we will continue to provide a high quality of service for OSG as a level 2 Service Provide in XD.

Name: Mátyás Selmeci	Institution: University of Wisconsin–Madison	
Date of Hire: July 2009	Title: Associate Systems Programmer	FTE level: 100%

Education: 2009, Bachelor of Science, University of Wisconsin–Madison

Publications: [none]

Work History:

- 2009–current: University of Wisconsin–Madison, OSG Software Developer

DOE/HEP Roles: [no extra roles]

Mentoring: [none]

Name: Mátyás Selmeci	Institution: University of Wisconsin–Madison

Current activities:

- OSG Technology/Software: 100%

Current roles:

- OSG Technology/Software: Software developer

Recent accomplishments:

- Designed, implemented, and maintained software build system
- Helped sites implement major software version changes
- Maintained several OSG software components that are used at OSG sites
- Packaged and maintained packaging of many software components that are used at OSG sites
- Provided support for OSG site administrators

Near future plans:

- Maintain and enhance OSG software and packaging to support OSG sites
- Support OSG sites as they deploy and use OSG software
- Evaluate the effects of major software changes before sites deploy them
- Create, maintain, and run automated tests of the integrated OSG software system
- Maintain and enhance internal systems for supporting OSG software

Name: Sfiligoi Igor	Institution: University of California San Diego	
Date of Hire: Jun 2009	Title: Sr. Research Software Developer	FTE level: *70%*

Education: *only the date, institution, and advisor for the PhD or highest degree held.*

1997, Universita Degli Studi di Udine, Master in Computer Science (equivalent)

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*
I Sfiligoi et al 2014 J. Phys.: Conf. Ser. 513 032089 doi:10.1088/1742-6596/513/3/032089
I Sfiligoi et al 2012 J. Phys.: Conf. Ser. 396 032102 doi:10.1088/1742-6596/396/3/032102
D Bradley et al 2011 J. Phys.: Conf. Ser. 331 062002 doi:10.1088/1742-6596/331/6/062002
I Sfiligoi et al 2011 J. Phys.: Conf. Ser. 331 062023 doi:10.1088/1742-6596/331/6/062023
I Sfiligoi et al 2010 Comp. Sci. and Opt. (CSO) 327 2 327-331 doi:10.1109/CSO.2010.90

Work History: *A list of significant leadership or management positions held over the past six years.*
Leader of the joint OSG and CMS Glidein Factory operations (2010 – now) and as such ultimately responsible for all design and procedural decisions, as well as long term evolution and planning.
Leader of the OSG Scalability and Reliability area (2009-2011)

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*
Supervised various UCSD undergraduates for student research projects relating to glideinWMS, and software scalability projects.

Name: Sfiligoi Igor	Institution: University of California San Diego

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*
Operations (20%)
Software (40%)
Security (10%)

Current roles: *What the role is played in each functional area*
Operations: Leader and Tier 3 support of the Glidein Factory service, Involved in technical discussion about the evolution of glidienWMS
Security: Contribute to policy making, Contributing to auditing activities
Software: Scalability and functionality testing of software comprising the OSG stack, Involved in technical discussion about the evolution of said software

Recent accomplishments: *Significant achievements in each functional area in the last three years.*
Operations: The Glidein Factory is now in the critical path of most computing done on OSG. Scientific leaders report that we have significantly reduced their operational load, and thus increased the scientific productivity of their constituency
Software: I have been the driving force behind finding bottlenecks in HTCondor software, that made it to scale in demanding conditions from about 10k CPUs to over 50k CPUs.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*
Operations: Continue to operate the Glidein Factory, look for ways to reduce human effort through more automation. Expand provisioning to non-Grid resources, like Cloud and Campus resources
Security: Continue assisting the core OSG Security team on as-needed basis
Software: Continue scalability and functionality testing on needed software. Start contributing to the technical evaluation of new software

Name: Marko Slyz	Institution: Fermi National Accelerator Laboratory	
Date of Hire: Oct. 2010	Title: Application Developer and Systems Analyst II	FTE level: 0.6

Education:

2002: University of Michigan; PhD in "Electrical Engineering: Systems"

Publications:

A. Avetisyan et al, “Snowmass Energy Frontier Simulations using the Open Science Grid (A Snowmass 2013 whitepaper)”, arXiv:1308.0843, 2013.

G. Garzoglio et al, “Big Data Over a 100G Network at Fermilab”, 2014 J. Phys.: Conf. Ser. 513 062017 doi:10.1088/1742-6596/513/6/062017, http://iopscience.iop.org/1742-6596/513/6/062017.

G. Garzoglio et al, “Supporting Shared Resource Usage for a Diverse User Community: the OSG Experience and Lessons Learned ”, 2012 J. Phys.: Conf. Ser. 396 032046 doi:10.1088/1742-6596/396/3/032046, http://iopscience.iop.org/1742-6596/396/3/032046.

Work History:

2010-2014: OSG User Support
2010-2014: Fermilab Computer Division Stakeholders User Support

DOE/HEP Roles:

Mentoring:

Name: Marko Slyz	Institution: Fermi National Accelerator Laboratory

Current activities:

0.6 FTE: User Support

Current roles:

User Support: Helping to set up users to run on OSG. Specifically with registering and getting them accounts, porting software, making the software available on worker nodes, breaking up the work into jobs, setting up data transfer to and from jobs, and checking that scratch disk, RAM, and CPUs are properly used. Finally, helping with problems during operations like getting enough CPU hours.

Help new sites to integrate their resources into OSG. This involves understanding each site's needs and goals, and then helping them with the technical aspects.

Recent accomplishments:

Helped the Snowmass project keep a few thousand cores busy to generate Monte Carlo samples. Provided set up help for especially the following experiments: DetectorDesign, EIC, NEES, NOvA, Pheno, SNOplus, StanfordRCC/Pande Lab, SuperB, and UPRRP-MR.

Helping sites with set up, especially FZU_NOVA, Kansas State, NDSU, and UMD-IGS.

Near future plans:

Will help to grow access to OSG DHTC by continuing to integrate new experiments as described above. Also by trying to simplify, automate, and document the processes for new experiments to start running, and by supporting the OSG to ACI-REFs partnership for new users who need to learn how to use DHTC.

Continue helping new sites with questions that come up, and also work to improve the sign up process.

Name: Scott Teige	Institution: Indiana University	
Date of Hire: 1/Jul/2010	Title: Operations Center Manager	FTE level*: *100%* **60% funded by OSG*

Education:

Ph.D., High Energy Experimental Physics, May, 1985, Advisor: Alex Dzierba

Publications:

1. OASIS: a data and software distribution service for Open Science Grid, B. Bockelman et al, 2014 *J. Phys.: Conf. Ser.* **513** 032013

2. Open Science Grid (OSG) ticket synchronization: Keeping your home field advantage in a distributed environment, K. Gross et al, 2012 *J. Phys.: Conf. Ser.* **396** 062009

3. The event notification and alarm system for the Open Science Grid operations center, S. Hayashi et al, 2012 *J. Phys.: Conf. Ser.* **396** 032105

4. The benefits and challenges of sharing glidein factory operations across nine time zones between OSG and CMS, I. Sfiligoi et al, 2012 *J. Phys.: Conf. Ser.* **396** 032103

5. A New Equation of State for Astrophysical Simulations, G. Shen et al, 2011 *Phys. Rev*. **C83**, 035802

Work History:

- Grid Operations Center Manager, 1/Jul/2010 - present

DOE/HEP Roles:

- CVMFS task force member
- Emergency response team, resource leader

Mentoring:

Name: Scott Teige	Institution: Indiana University
Current activities: *Operations, 100% FTE*	
Current roles: *Manager of the Grid Operations Center at Indiana University. Supervises the operation of machines and services that enable the OSG to serve users. These systems include: Information Management (OIM, BDII, VOMS), Software Distribution (Oasis, Software Repositories), Documentation (Homepages, MyOSG, TWiki), Trouble Ticket/Tracking (Ticket, Ticket Exchange, JIRA), Accounting and Monitoring (RSV) and Job Submission portals (Glidein, OSG_XD)*	
Recent accomplishments: • *Operated all services with no SLA exceptions, greater than 99% availability for calendar year 2013.* • *Brought OASIS (an OSG-wide shared file system) into operation* • *Consolidated service hardware in the state-of-the-art Bloomington Data Center*	
Near future plans: • *Continue operation at the highest levels of Availability/Reliability* • *Upgrading network to 10GigE* • *Modernizing infrastructure as lifecycle funds become available* • *Implementation new services as required/requested by OSG stakeholders* • *Take over accounting data transfer from OSG to EGI for HEP and non-HEP VOs* • *Grow use of submission portals for access to OSG resources, particularly for the large opportunistic use community.*	

Name: Suchandra Thapa	Institution: University of Chicago	
Date of Hire: Nov 2007	Title: Software Engineer	FTE level: *100%*

Education: *BS – University of Chicago- 2000*

Publications:

1. Automatic Integration Testbeds validation on Open Science Grid
   J Caballero, S Thapa, R Gardner, and M Potekhin 2011 *J. Phys.: Conf. Ser.* **331** 062027

Work History:

Lead and coordinated validation testbed efforts for OSG releases, and integration testbed activities.

DOE/HEP Roles: *N/A*

Mentoring: *N/A*

Name: Suchandra Thapa	Institution: University of Chicago
Current activities: *Software Team 50% - Campus Grids 50%*	
Current roles: *Software Team – Testing new software releases* *Campus Grids – User support/engagement* *Developing new software to enhance existing infrastructure and to improve user experience/system functionality (Distributed Environment Modules).* *Curating common user application libraries from campus communities, the XSEDE campus bridging repository, and from the existing OSG user base into OASIS, the CVMFS-based software distribution service for the OSG.*	
Recent accomplishments: *Significant achievements in each functional area in the last three years.* *Software team – maintenance of site configuration software* *Campus Grids – implemented distributed software modules system to provide homogenous user experience on various OSG sites.*	
Near future plans: Campus Grids – implement analytics to track user software usage on OSG Connect resources by field of science, project, and principal investigator.	

Name: Tim Theisen	Institution: University of Wisconsin–Madison	
Date of Hire: April 2013	Title: Senior Systems Programmer	FTE level: 50%

Education: 1988, Master of Science, University of Wisconsin–Madison

Publications: [none]

Work History:

- 2013–current: University of Wisconsin–Madison, OSG Release Manager
- 2002–2013: TomoTherapy/Accuray, Lead Research Software Engineer

DOE/HEP Roles: [none]

Mentoring: [none]

Name: Tim Theisen	Institution: University of Wisconsin–Madison

Current activities:

- OSG Technology / Release: 0.5 FTE

Current roles:

- OSG Technology: OSG Release Manager

Recent accomplishments:

- Established predictable release schedule
- Collected and documented many acceptance testing procedures
- Maintain good communication about releases to site administrators

Near future plans:

- Manage the activities and people of the OSG Release team
- Support OSG sites as they deploy and use OSG software
- Test OSG software and packaging thoroughly before production releases
- Release OSG software packages for production use at OSG sites

Name: Derek J. Weitzel	Institution: University of Nebraska-Lincoln	
Date of Hire: May, 2009	Title: Grad. Research Assist.	FTE level: 30%

Education: (Highest degree held only)
PhD in Computer Science. University of Nebraska-Lincoln (advisor: Dr. David Swanson). Expected Dec 2014.
Masters of Science Computer Engineering University of Nebraska – Lincoln. Completed: May 2011

Publications:

1. Weitzel, D., Sfiligoi, I., Bockelman, B., Frey, J., Wuerthwein, F., Fraser, D., and Swanson, D. Accessing opportunistic resources with BOSCO. Journal of Physics: Conference Series 513, 3 (2014), 032105
2. Levshina, T., Sehgal, C., Bockelman, B., Weitzel, D., and Guru, A. Grid accounting service: state and future development. Journal of Physics: Conference Series 513, 3 (2014), 032056
3. He, C., Weitzel, D., Swanson, D., and Lu, Y. Hog: Distributed hadoop mapre- duce on the grid. In High Performance Computing, Networking, Storage and Analysis (SCC), 2012 SC Companion: (2012), IEEE, pp. 1276–1283
4. Weitzel, D., Fraser, D., Bockelman, B., and Swanson, D. Campus grids: Bringing additional computational resources to hep researchers. In Journal of Physics: Conference Series (2012), vol. 396, IOP Publishing, p. 032116
5. Weitzel, D., Bockelman, B., Fraser, D., Pordes, R., and Swanson, D. Er open science grid technology. Journal of Physics: Con- ference Series 331, 6 (2011), 062025

Work History:

- Graduate Research Assistant – May 2009 – Present – University of Nebraska Lincoln Holland Computing Center, Lincoln, NE

DOE/HEP Roles: *N/A*

Mentoring: *N/A*

Name: Derek J. Weitzel	Institution: University of Nebraska-Lincoln

Current activities:
0.3 FTE: Software and documentation support for the Campus Grids area and support the integration of BOSCO / HTCondor-G+SSH into production.

Current roles:
Software Developer

Recent accomplishments: *Significant achievements in each functional area in the last three years.*

- Completion of the BOSCO submission framework.
- Integrate BOSCO into an official HTCondor release.
- Assist multiple users to use the BOSCO framework.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*

- Improve the usability of BOSCO with better documentation.
- Contribute a file transfer mechanism to BOSCO for large data processing.

Name: Frank Wuerthwein	Institution: University of California San Diego	
Date of Hire: Jun 2003	Title: Full Professor, PI	FTE level: 0.10 FTE

Education: *only the date, institution, and advisor for the PhD or highest degree held.*

Ph.D. Cornell University 1995 (Advisor: Jim Alexander)

Publications: *A list of up to five significant publications or technical notes authored in the last six years.*
"The open science grid", J.Phys.Conf.Ser.78 (2007) 012057 (170 citations according to Google)
"The Pilot way to Grid resources using glideinWMS" WRI World Congress on Computer Science and Information Engineering, Vol.2 (2009) pp. 428-432 (58 citations according to Google)
"Interoperation of world-wide production e-science infrastructures" Concurrency and Comput.: Pract.Exper, 21:961-990 (50 citations according to Google)

Work History: *A list of significant leadership or management positions held over the past six years.*
OSG co-PI on current NSF grant.
OSG Applications Coordinator since 2006
OSG Resource Manager since 2010
XSEDE UAC Member (since 2012)
CMS Analysis Operations Co-lead (2009-2011)
CMS Global Computing Commissioning Co-lead (2006-2009)
CMS SUSY Convener (2013 & 2014)
Member of US-CMS Project Execution Team since 2005

DOE/HEP Roles: *A list of positions held in the past six years of significance to the broader HEP or scientific computing community (e.g., workshop organizer, DPF sub-committee chair, DOE review panelist, etc.).*
ASCR Exascale Workshop Experimental HEP Session Organizer
DOE Fusion Energy Advisory Panel Member
LBNE Review Panelist

Mentoring: *A list of any post-docs or graduate students advised, supervised, or mentored in a significant way over the past six years.*
Post-docs: Mark Neubauer, Elliot Lipeles, Sanjay Padhi, Dave Evans, Ben Hooberman (FNAL), Verena Martinez (FNAL), Frank Golf (UCSB), Dmytro Kovalskiy (UCSB), Dominick Olivito, Yanjun Tu, Mariarosaria D'Alfonso
Graduate Students: Shih-Chieh Hsu, Mathew Norman, Warren Andrews, Frank Golf , Jaehyeok Yoo, Ian MacNeil, Vince Welke, Daniel Klein, Liam Fedus, Mark Derdzinski, Alexander Georges

Name: Frank Wuerthwein	Institution: University of California San Diego

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*
Management

Current roles: *What the role is played in each functional area*
OSG co-PI on current NSF grant.
OSG Applications Coordinator since 2006
OSG Resource Manager since 2010

Recent accomplishments: *Significant achievements in each functional area in the last three years.*
The accomplishment of OSG that I am personally most proud of is that we managed to grow significantly the diversity of scientific user community while at the same time supporting the LHC community in particular, and the HEP community in general. An immediate benefit to HEP from our effort into supporting science in general is the success of the Snowmass 2014 studies. If we had focused narrowly on satisfying only ATLAS and CMS, then Snowmass would not have been possible.

Near future plans: *High level workplans (consistent with SOWs) for the upcoming 2-3 years of OSG.*
Continue growing the scale and diversity of science supported via OSG while at the same time serving the HEP community as our #1 customer.

Name: Alexandr Zaytsev	Institution: Brookhaven National Laboratory	
Date of Hire: 5/15/2012	Title: Senior Technology Engineer	FTE level: 50%

Education:
2003, Novosibirsk State University (NSU), Master of Science in Physics
2001, Novosibirsk State University (NSU), Bachelor of Science in Physics

Publications:

1. M. Dobson *et al.*, IT Infrastructure Design and Implementation Considerations for the ATLAS TDAQ System. In José A. Moinhos Cordeiro, Maria Virvou, and Boris Shishkov (Eds.), ICSOFT 1, 206-209, SciTePress, 2010.
2. A. Adakin *et al.*, Evolution of the Virtualized HPC Infrastructure of Novosibirsk Scientific Center. Proceedings of CHEP2012 conference ("Computing in High Energy and Nuclear Physics"), New York, USA, May 21-25, 2012. J. Phys.: Conf. Ser. 396 042064, 2012.
3. ATLAS Collaboration, Combined search for the Standard Model Higgs boson using up to 4.9 fb-1 of pp collision data at sqrt(s) = 7 TeV with the ATLAS detector at the LHC. Phys. Lett. B 710 (2012) 49-66.
4. S. Ballestrero *et al.*, Design and Performance of the Virtualization Platform for Offline Computing on the ATLAS TDAQ Farm. Proceedings of CHEP2013 conference ("Computing in High Energy and Nuclear Physics"), Amsterdam, Netherlands, Oct 14-18, 2013. J. Phys.: Conf. Ser. 513 032011, 2014.
5. S. Panitkin *et al.*, ATLAS Cloud Computing R&D. Proceedings of CHEP2013 conference ("Computing in High Energy and Nuclear Physics"), Amsterdam, Netherlands, Oct 14-18, 2013. J. Phys.: Conf. Ser. 513 062037, 2014.

Work History:
01/2014 – present time, Senior Technology Engineer at Brookhaven National Laboratory (BNL).
05/2012 – 12/2013, Advanced Technology Engineer at Brookhaven National Laboratory (BNL).

DOE/HEP Roles: N/A

Mentoring: N/A

Name: Alexandr Zaytsev	Institution: Brookhaven National Laboratory

Current activities: *Which OSG functional area each individual is currently working on, with the FTE fractions allocated to each area*

1. Provide effort and support the work of the OSG software team (40%). This includes:
    a. Provide direct user support, as needed.
    b. Integrate new and updated components into OSG software stack, as needed.
    c. Post release evaluations and process improvement.
2. Act as a technical liaison and help coordinate activities and optimize effort among OSG, RACF and NP supported experiments (10%).

Current roles:

1. Member of the OSG User Support Team
2. Technical liaison for the EIC (Electron-Ion Collider), BNL PET (Positron Emission Tomography), sPHENIX (Super-PHENIX) user groups based at BNL.

Recent accomplishments:

1. Help to establish a storage area in BNL ATLAS dCache for the OSG Snowmass user group in Mar-Apr 2013. Reaching this particular goal involved acting as a liaison between the RACF Storage Management Group, RACF Grid Middleware Group, and the OSG user support team. Results of this activity were well received by the OSG collaboration and mentioned in the OSG Newsletter published in Aug 2013.
2. Participate in the debugging of the OSG XSEDE Glidein mechanism resulting in isolating and fixing two issues that were affecting the production jobs of the BNL EIC user group and (potentially) other user groups using XSEDE resources (2013).
3. Lead the design, initial testing and full scale production deployment activities for the Openstack driven virtualization system for Sim@P1 Project using the computing resources of the ATLAS HLT farm (CERN, LHC Point 1) for running Monte-Carlo production jobs for ATLAS experiment within WLCG on the scale of about 20k jobs running in parallel (2013). Oversee the production operations of the system in 2013-2014 and deliver several status reports to ATLAS collaboration meetings and CHEP2013 international conference. The project is recognized as a major success by the ATLAS collaboration and was referred to in more than 10 reports delivered to the ATLAS meetings and international conferences during the period of 2013-2014 by the ATLAS collaboration members who are not directly involved in the Sim@P1 Project.
4. Serve as a liaison between the EIC user group, OSG User Support Team and RACF specialists while making it possible for the EIC team to run jobs on the computing farm of the PHENIX experiment deployed in RACF. As a result of these efforts the EIC team was able to run their production jobs on the RACF computing resources on the scale of up to 1000 jobs in parallel previously difficult to reach within framework of the OSG XSEDE environment due to specific runtime/memory requirements of the jobs. The EIC related support activities were reported in the OSG News Letter and iSGTW News Letter in 2014.

Near future plans:

1. Continue to deal with OSG-related support and R&D.
2. Continue to contribute to the activities of the OSG User Support Team on a regular basis.
3. Continue to act as a technical liaison between the OSG User Support Team and local user groups based at BNL.
4. Provide the Sim@P1 with necessary technical expertise both regarding the Openstack infrastructure and operational aspects of the project as it undergoes the transition from the LHC Long Shutdown 1 period to the LHC Run 2 period.
5. Provide effort and support the work of the OSG software team