

WBS 2.3.3 Cyberinfrastructure Resource Integration (CRI)

Mission Statement

To leverage the aggregate national cyberinfrastructure in XSEDE SP's, campuses, and regional partnerships in order to maximize support for research initiatives.

Goals, Metrics & KPIs

KPI	Target	Subgoal
Total number of systems using one or more CRI toolkits	150	Advance

Area metrics	Target
Total number of systems that use one or more CRI provided toolkits	700 by the end of RY2
User satisfaction with CRI services	4 out of 5
Number of repository subscribers to CRI cluster and laptop tools	150/yr
Aggregate number of TeraFLOPS of cluster systems using CRI toolkits	Additional 200/ year 1000/length of project
Number of partnership interactions between CRI and SP's, national CI organizations, and campus CI providers	12/year
Toolkit updates	4/yr
New toolkits released	2/yr

[Metrics Tracking Page](#)

[LOCs supporting winning awards](#)

[XCRI Cluster Deployments](#)

[SP software - presentations and recordings](#)

[Centos migration plans for XSEDE resources/sites](#)

Team Members

Indiana University

Name	Institution	Position	Email
Rich Knepper	Cornell University	L3 Manager	rich.knepper@cornell.edu
Winona Snapp-Childs	Indiana University	COO, Pervasive Technology Institute	wsnappch@iu.edu
Steve Bird	Indiana University	Campus Engineering & Outreach	stebird@iu.edu
Eric Coulter	Georgia University of Technology	Campus Engineering & Outreach & Toolkit Development	j.eric@gatech.edu
Resa Alvord Reynolds	Cornell University	Toolkit packaging	rda1@cornell.edu
Tabitha Samuel	University of Tennessee	SP Coordination	tsamuel@utk.edu
Peter Vaillancourt	Cornell University	Campus Engineering	pzv2@cornell.edu
Suresh Marru	Indiana University	Research Software Engineer	smarru@iu.edu
Dimuthu Upeksha Wannipurage	Indiana University	Research Software Engineer	dwannipu@iu.edu
Chris Martin	Indiana University	Cloud Systems Engineer	cm10@iu.edu
Marlon Pierce	Indiana University	Interested Party	marpierc@iu.edu
Robert Quick	Indiana University	Interested Party	rquick@iu.edu
Jeremy Fishcher	Indiana University	Interested Party	jeremy@iu.edu

Communication & Meetings

CRI meetings are held on the first and third Tuesdays of the month at 11am EST.

[Meeting Coordinators](#)

[XCRI Biweekly Meeting Agendas](#)

[SP Software Monthly Meeting Agendas and Minutes](#)

Monthly Service Provider software calls are on the first Monday of the month at 4pm Eastern/3pm Central/1pm Pacific unless it falls on a holiday or during the week of PEARC. If a conflict the meeting is usually moved to the following Monday.

[Meeting Coordinators](#)

New Staff Orientation

Projects

[XCRI Toolkit Tracking](#)

[XCRI Process for new software toolkits](#)

[XCRI Capability Deployment Plans](#)

[XCRI Site Visits and Outreach Appearances](#)

[XCRI Letters of Support for Campus CI activities](#)

[Language for XCRI Collaborations \(letters of collab signed by PI Towns\)](#)

[XCRI New Use Case Drafts](#)

[XCRI Software Requests](#)

SP Coordination

Tabitha Samuel at University of Tennessee is XSEDE SP Coordinator.

Tasks:

- Attend SP-Forum meetings to convey information and coordinate
- Attend Level3-SP meetings to convey information and coordinate
- Lead SP-Software meetings for communication and coordination with SPs regarding XSEDE software stack
- Communicate and coordinate deployment of XSEDE software stack to SPs including preparing deployment plans, maintaining XSEDE production software repository and coordination of this software with SPs and XSEDE RACD staff
- Maintain an XSEDE Federation membership list
- Get SPs to enter information in XSEDE RDR and XSEDE information services
- Perform onboarding and offboarding of SPs as part of XSEDE Federation at all Service Provider levels 1-3
- Perform annual checklists of SPs
- Provide a conduit to XSEDE for SPs to convey requirements and needs in Cyberinfrastructure

The annual SP checklist review information is available at the [SP Integration Status page](#) on the Research Software Portal provided by XSEDE.

For XSEDE2 Program Year 4 (PY9) there are eight NSF awardees that have stated an intent to join XSEDE as an allocated Service Provider which are the first 8 in the list below. For the last three in the table below, their NSF awards start 10/1/2020 and their NSF awards start in XSEDE2 Program Year 5 (PY10). The current list of SP resources with a stated intent to integrate into XSEDE as an allocated resource are in the below table:

Service Provider Resource	Organization	Link	Principal Investigator	NSF Award: Award Start Date	Expected Target Production Date
Bridges-2	PSC	Bridges-2 press release	Nick Nystrom	1928147: 10/1/2019	October 1, 2020 (on track!)
Expanse	SDSC	Expanse press release	Mike Norman	1928224: 10/1/2019	October 1, 2020 (on track!)

Ookami	SUNY at Stony Brook	Ookami press release	Robert Harrison	1927880 : 10/22/2019	Startups as soon as practicable Full allocations October 1, 2022
Open Storage Network	Collaboration MGHPCC, UCSD /SDSC UNC-CH, Illinois, JHU	openstoragenetwork.org	John Goodhue, Mike Norman, Stanley Ahalt, James Glasgow, Alex Szalay	1747507 : 6/15/2018 1747490 1747483 1747552 1747493	Target: TBD
DARWIN (MRI)	U Delaware		Rudi Eigenmann	1919839 : 10/1/2019	Target January 2021
DISCO (MRI)	Johns Hopkins Univ	DISCO grant information	Dennice Gayme	1920103 : 10/1/2019	Target July 2021
Neocortex (Cat II)	CMU (PSC)		Paola Buitrago	2005597 : 6/1/2020	TBD; Kickoff mtg to be scheduled
Voyager (Cat II)	UCSD (SDSC)		Amitava Majumdar	2005369 : 6/1/2020	TBD; Kickoff mtg to be scheduled
Anvil (Category I)	Purdue		Carol Song	2005632 : 10/1/2020	Kickoff mtg: 7/2/2020 Target 10/1/2021
Jetstream 2 (Category I)	Indiana		David Hancock	2005506 : 10/1/2020	TBD; Kickoff mtg to be scheduled
Delta (Category I)	Illinois (NCSA)		William Gropp	2005572 : 10/1/2020	TBD; Kickoff mtg to be scheduled
FASTER (MRI)	Texas A&M		Honggao Liu	2019129 : 9/1/2020	Kickoff mtg: Met 9/16/20. Target: 4/1/2021
Cancer Computer Resource	Cancer Computer Computing for Cure		Roy Chartier	Not an NSF award	XFed letter expect Sept 2020
KyRIC	U Kentucky		James Griffioen Vikram Gazula (tech lead)	1626364 : 8/1/2016	Met 9/2/2020 Target 4/1/2021

(Other info on the [XSEDE SP Coordinations MS Teams page](#))

[Informal polling](#) of items in discussion by XSEDE