

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 |
|-----------------------------|----------------------------------|---|--|
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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