

# 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<br>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  | <a href="mailto:rich.knepper@cornell.edu">rich.knepper@cornell.edu</a> |
| Winona Snapp-Childs         | Indiana University               | COO, Pervasive Technology Institute                 | <a href="mailto:wsnappch@iu.edu">wsnappch@iu.edu</a>                   |
| Steve Bird                  | Indiana University               | Campus Engineering & Outreach                       | <a href="mailto:stebird@iu.edu">stebird@iu.edu</a>                     |
| Eric Coulter                | Georgia University of Technology | Campus Engineering & Outreach & Toolkit Development | <a href="mailto:j.eric@gatech.edu">j.eric@gatech.edu</a>               |
| Resa Alvord Reynolds        | Cornell University               | Toolkit packaging                                   | <a href="mailto:rda1@cornell.edu">rda1@cornell.edu</a>                 |
| Tabitha Samuel              | University of Tennessee          | SP Coordination                                     | <a href="mailto:tsamuel@utk.edu">tsamuel@utk.edu</a>                   |
| Peter Vaillancourt          | Cornell University               | Campus Engineering                                  | <a href="mailto:pzv2@cornell.edu">pzv2@cornell.edu</a>                 |
| Suresh Marru                | Indiana University               | Research Software Engineer                          | <a href="mailto:smarru@iu.edu">smarru@iu.edu</a>                       |
| Dimuthu Upeksha Wannipurage | Indiana University               | Research Software Engineer                          | <a href="mailto:dwannipu@iu.edu">dwannipu@iu.edu</a>                   |
| Chris Martin                | Indiana University               | Cloud Systems Engineer                              | <a href="mailto:cm10@iu.edu">cm10@iu.edu</a>                           |
| Marlon Pierce               | Indiana University               | Interested Party                                    | <a href="mailto:marpierc@iu.edu">marpierc@iu.edu</a>                   |
| Robert Quick                | Indiana University               | Interested Party                                    | <a href="mailto:rquick@iu.edu">rquick@iu.edu</a>                       |
| Jeremy Fishcher             | Indiana University               | Interested Party                                    | <a href="mailto:jeremy@iu.edu">jeremy@iu.edu</a>                       |

## Communication & Meetings

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

[Meeting Coordinates](#)

[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 Coordinates](#)

## 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          | <a href="#">Bridges-2 press release</a> | Nick Nystrom           | 1928147: 10/1/2019          | October 1, 2020 (on track!)     |
| Expanse                   | SDSC         | <a href="#">Expanse press release</a>   | Mike Norman            | 1928224: 10/1/2019          | October 1, 2020 (on track!)     |

|                          |  |   |  |   |  |
|--------------------------|--|---|--|---|--|
| Ookami                   | SUNY at Stony Brook  | <a href="#">Ookami press release</a>    | Robert Harrison  | <a href="#">1927880</a> : 10/22/2019  | Startups as soon as practicable<br>Full allocations October 1, <b>2022</b> |
| Open Storage Network     | Collaboration<br>MGHPCC, UCSD /SDSC<br>UNC-CH, Illinois, JHU | <a href="#">openstoragenetwork.org</a>  | John Goodhue,<br>Mike Norman,<br>Stanley Ahalt,<br>James Glasgow,<br>Alex Szalay | <a href="#">1747507</a> : 6/15/2018<br><a href="#">1747490</a><br><a href="#">1747483</a><br><a href="#">1747552</a><br><a href="#">1747493</a> | Target: TBD  |
| DARWIN (MRI)             | U Delaware   |   | Rudi Eigenmann   | <a href="#">1919839</a> : 10/1/2019   | Target January 2021  |
| DISCO (MRI)              | Johns Hopkins Univ   | <a href="#">DISCO grant information</a> | Dennice Gayme  | <a href="#">1920103</a> : 10/1/2019   | Target July 2021   |
| Neocortex (Cat II)       | CMU (PSC)  |   | Paola Buitrago   | <a href="#">2005597</a> : 6/1/2020  | TBD; Kickoff mtg to be scheduled   |
| Voyager (Cat II)         | UCSD (SDSC)  |   | Amitava Majumdar   | <a href="#">2005369</a> : 6/1/2020  | TBD; Kickoff mtg to be scheduled   |
| Anvil (Category I)       | Purdue   |   | Carol Song   | <a href="#">2005632</a> : 10/1/2020   | Kickoff mtg: 7/2/2020<br>Target 10/1/2021                                  |
| Jetstream 2 (Category I) | Indiana  |   | David Hancock  | <a href="#">2005506</a> : 10/1/2020   | TBD; Kickoff mtg to be scheduled   |
| Delta (Category I)       | Illinois (NCSA)  |   | William Gropp  | <a href="#">2005572</a> : 10/1/2020   | TBD; Kickoff mtg to be scheduled   |
| FASTER (MRI)             | Texas A&M  |   | Honggao Liu  | <a href="#">2019129</a> : 9/1/2020  | Kickoff mtg: Met 9/16/20.<br>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<br>Vikram Gazula (tech lead)                                     | <a href="#">1626364</a> : 8/1/2016  | Met 9/2/2020<br>Target 4/1/2021  |

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

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