

Software Working Group

The Software Working Group (SWG) is an effort internal to the NCSA Software directorate to:

- Increase internal awareness of development activities across the Software Directorate (SD) supported projects and NCSA wide activities
- Amplify efforts across projects by leveraging existing projects and experience
- Recommend strategic direction of the Software directorate regarding future investments/activities/types of projects to pursue
- Create short lived Focus Groups (FG)
- Manage Round Tables around specific topics
- Recommend best practices

Membership

- One member from each Software Directorate team
 - Each SD team can decide when their representative in SWG changes
 - Members update the SWG on team projects/activities for all their team members (not just the projects they are staffed on)
 - Members attend working group meetings, share updates and report back to their respective software directorate team what they have learned
 - If a member cannot attend a particular meeting, it is their responsibility to find a replacement from their team for that meeting
- One chair

Internal Meetings

Topics for discussion:

- Technology adopted or being developed by individual projects
- Potential interesting new technologies to be adopted
- Standard software architectures (potentially generating reference architectures)
- Software deployment strategies and technologies (Docker, Kubernetes, Puppet, etc)
- Specific software development practices adopted by individual projects
- New projects and efforts starting up

Activities

Round Tables

Activity Leads: [Rebecca Eveland](#) [Elizabeth Yanello](#) (logistics)

- Every other week at 10 am on Tuesdays (specific announcements go out over bytes and pieces and #announcements on slack)
- Everyone is welcome to attend
- Format is open conversation around a topic with personal experience
- One moderator to lead the conversation

Special Interest Groups

Activity Leads: [Pengyin Shan](#) [Elizabeth Yanello](#) (logistics)

- Created as needed when shared interest arises around a specific topic
- Anyone from the Center can be part of a SIG based on expertise and interest
- Meet once every week or two to share updates, or just chat on Slack
- Low pressure - choose your own topics and goals
- Members of the SIG choose:
 - A lead in charge of organizing team and reporting back to the SWG
 - No set time frame is required - large topics can have long-term groups
 - No concrete deliverables required - goals or milestones are encouraged

Hands-on Sessions

Activity Leads: [Chen Wang](#) [Elizabeth Yanello](#) (logistics)

- Help organize hands on sessions on specific topic to bring together experts and new adopters to learn a new framework, programming language, tool together.
- Sessions are on as needed basis.
- A couple of hours sessions are recommended. More might be too much. Less might be too short.
- Can be one or more session per topic.

Software Seminars

Activity Leads: [Rob Kooper](#) [Elizabeth Yanello](#) (logistics)

- Help share knowledge across NCSA. This will allow you to present your conference paper, or your work to a larger audience.
- Every other month (odd month) on the first Tuesday at noon.
- Lunch will be provided (speakers choice).

Best Practices Handbook

Activity Lead: [Todd Nicholson](#)

- Capture lessons learned and best practices for NCSA in one living document
- Draft: <https://github.com/ncsa/software-development-handbook>

Current members

- [Luigi Marini](#) (Chair)
- [Mikolaj Kowalik](#) (SADL)
- [Pengyin Shan](#) Wendy (VA)
- [Douglas Friedel](#) (SD3)
- [Bing Zhang](#) (ReSALT)
- [Jong Lee](#) (SPO)
- [Rebecca Eveland](#) (TRI, Round Tables)
- [Elizabeth Yanello](#) (SPO)
- [Chen Wang](#) (Hands-on Sessions)
- [Lisa Gatzke](#) (UIX)
- [Maxwell Burnette](#) (Best Practices Handbook)
- [Rob Kooper](#) (Software Seminars)

Links

- [Round Table Discussions](#)
- [Special Interest Groups \(SIGs\)](#)
- [SWG Topics For Discussion](#)
- [Best Practices Handbook](#)
- [Software Round Table Starter Kit](#)