

NCSA Software

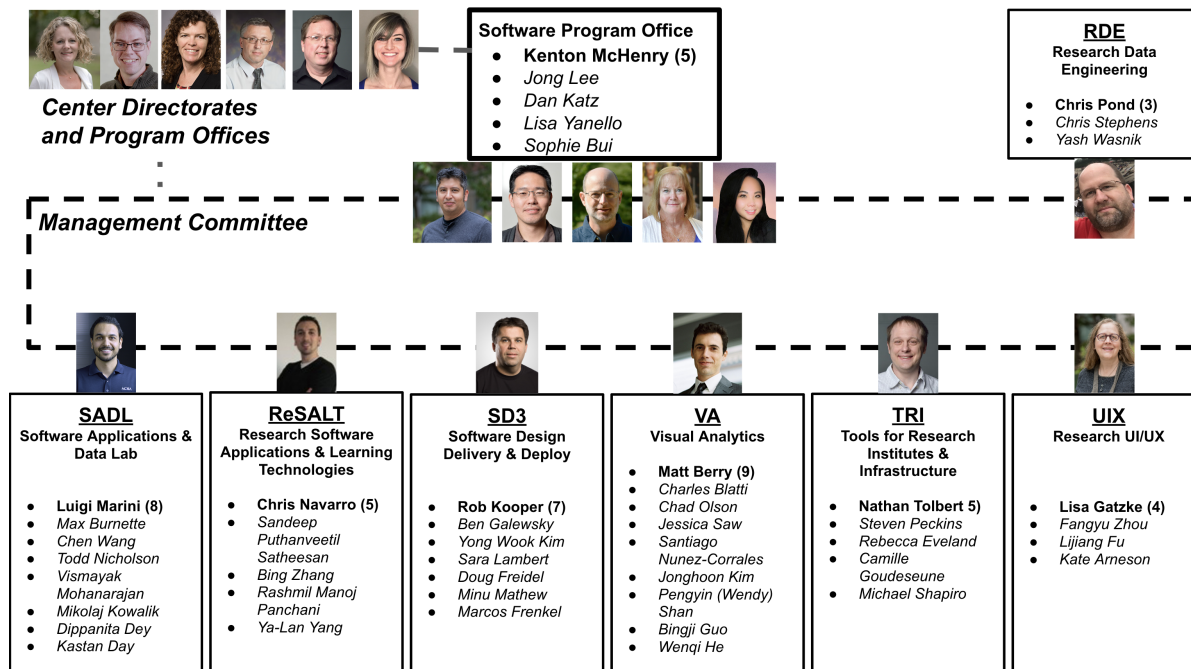
Mission: To develop teams of research software engineers who amplify and advance scientific/industrial endeavors requiring software/data through the development of innovative software paradigms, platforms, and capabilities

Vision: World-leading Research Software Engineers who enable new capabilities and advance discovery through innovative software/data solutions

Directorate Information

- [Welcome to the Software Directorate](#)
- [Software & Services](#)
- [Publications \(Overview Publications per Topic\)](#)
- [Software Seminars](#)
- [Software Working Group](#)
- [Student Internship Ideas](#)
- [Project Development](#)
- [Relevant Venues](#)
- [Meeting notes](#)
- [Documentation](#)
- [Discussions](#)
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Organization



- [NCSA Leadership](#)
- [Software Management Committee \(MC\)](#)
- [Research Software Applications and Learning Technologies \(ReSALT\)](#)
- [Software Applications and Data Laboratory \(SADL\)](#)
- [Software Design, Delivery and Deployment \(SD3\)](#)
- [Tools for Research Institutes and Infrastructure \(TRI\)](#)
- [Visual Analytics \(VA\)](#)

Staff

- [Directory](#)
- [Where are my boss & colleagues?](#)
- [Onboarding - being updated](#)
- [Career Paths](#)
- Staff Support:
 - New ideas: [Center Directed Discretionary Research \(CDDR\)](#)
 - New collaborations: [NCSA Fellows \(wiki\)](#)
 - [NCSA Fellows Requests](#)
 - Student outreach: [SPIN](#)
 - Staff Development
 - [NCSA Staff Development](#)

- Campus Staff Development
- [Kenton's Corner](#)

Dissemination

- Webpage: <http://www.ncsa.illinois.edu/enabling/software>
- Software directorate mailing list: sd@lists.ncsa.illinois.edu
- Public mailing list: software@ncsa.illinois.edu
 - To be added to the software mailing list visit <https://lists.ncsa.illinois.edu/lists/info/software> and login with your Illinois username /password
- Chat:
 - NCSA Slack: <https://ncsa-at-illinois.slack.com>
 - Directorate channel, for directorate discussions: #sd-general
 - Public channel, for general software discussions: #software
 - US-RSE (US Research Software Engineering community)
 - Slack: <https://usrse.slack.com>
 - Signup: <https://us-rse.org/join/>
- YouTube: <https://www.youtube.com/channel/UCGIXAeNEa2v7Gt-tvfdJPvw>
- Twitter: <https://twitter.com/NCSASoftware>
- Publications:
 - Zotero: https://www.zotero.org/groups/11520/ncsa_software

Resources

- Repositories (see [Repositories](#) for details):
 - GitHub: <https://github.com/ncsa/>
 - Atlassian suite: <https://opensource.ncsa.illinois.edu> (opensource software only!)
 - DockerHub: <https://hub.docker.com/u/ncsa>
 - Harbor: <https://hub.ncsa.illinois.edu>
 - npmjs: <https://www.npmjs.com/org/ncsa>
- Infrastructure (Computation & Storage):
 - Condo - Storage resource ([Jim Glasgow](#))
 - 10+ PB of storage accessible via GridFTP, NSF, and native GPFS
 - Open Storage Network - Distributed object store storage resource ([Jim Glasgow](#), [Kenton McHenry](#))
 - 5 PB of storage (1 PB locally) accessible via S3 API
 - Radiant - 2nd generation elastic compute resource with nearby data storage ([Amy Schuele](#), [Jong Lee](#), [Kenton McHenry](#))
 - 140 nodes (3360 cores), 35 TB memory, 185 TB flash capacity, with access to 10PB+ of storage
 - HAL - deep learning resource ([Vlad Kindratenko](#)) - pilot phase!
 - 81,920 NVIDIA V100 GPU cores, 640 CPU core, 4 TB memory, 230 TB of flash storage (Spectrum Scale/GPFS)
 - iForge - HPC resource in support of industry activities ([Neil Andrews](#)) - industry activities!
 - 84 nodes (2,208 cores), 15 TB memory, 700 TB storage

Recent space activity

[Sandeep Puthanveetil Satheesan](#)
2022-06-20 Meeting notes updated Apr 20, 2024 [view change](#)

[Kenton McHenry](#)
NCSA Software updated Apr 01, 2024 [view change](#)

[Dan Katz](#)
Running FuncX Endpoint commented Mar 28, 2024

[Timothy Andrew Manning](#)
Linux workstation guide for NCSA employees updated Mar 16, 2024 [view change](#)



[Pengyin Shan](#)
Special Interest Groups (SIGs) updated Feb 04, 2024 [view change](#)

Space contributors

- [Sandeep Puthanveetil Satheesan](#) (13 days ago)
- [Kenton McHenry](#) (32 days ago)
- [Timothy Andrew Manning](#) (48 days ago)
- [Pengyin Shan](#) (89 days ago)
- [Rebecca Eveland](#) (94 days ago)
- ...

