

David E. Bernholdt, CASS Steering
Committee member and chair

<https://cass.community>
[cass-steering-committee](mailto:cass-steering-committee@email.ornl.gov)
[@email.ornl.gov](mailto:cass-steering-committee@email.ornl.gov)

Introducing the Consortium for the Advancement of Scientific Software (CASS)



This material is based upon work supported by the U.S. Department of Energy, Office of Science, Office of Advanced Scientific Computing Research, Next-Generation Scientific Software Technologies program, under contract numbers DE-AC02-06CH11357 (ANL), KJ0401010/FWP CC141 (BNL), DE-AC02-05CH11231 (LBNL), DE-AC52-07NA27344 (LLNL), DE-AC05-00OR22725 (ORNL), DE-AC06-76RL01830 (PNNL), DE-NA0003525 (SNL), and Triad National Security LLC ('Triad') contract grant 89233218CNA000001 (LANL)

CASS: Stewardship and Advancement of the Scientific Software Ecosystem

- A federation of member organizations supporting specific communities or providing crosscutting capabilities related to scientific software stewardship
- **Inward-facing activities** to support and enhance software products
 - Improving software development practices, sustainability, quality, trustworthiness
 - Improving user experience, integration into the larger ecosystem
- **Outward-facing activities** to
 - Curate the collection of software products,
 - Help teams find and engage with users
 - Help the community find and use software that might benefit them

Origins and Founding Members

- Launched by 8 software stewardship organizations (SSOs) supported by the U.S. DOE, Office of Advanced Scientific Computing Research (ASCR)
 - Targeted ecosystem initially includes the ECP Software Technologies software products and other ASCR-supported software

COLABS

Training, workforce development, and building the RSE community

CORSA

Partnering with foundations to provide sustainable pathways for scientific software

FASTMATH

Stewardship, advancement, and integration for math and ML/AI packages

PESO

Stewarding, evolving and integrating a cohesive ecosystem for DOE software

RAPIDS

Stewardship, advancement, and integration for data, visualization and ML/AI packages

S4PST

Stewardship, advancement and engagement for programming systems

STEP

Stewardship, advancement of software tools for understanding performance and behavior

SWAS

Stewardship and project support for scientific workflow software and its community

Engage with CASS!

- Join our (low-volume) **announcement mailing list** to follow our activities:
<http://eepurl.com/iRiSnY>
 - Also, SC24 events at <https://cass.community/sc24>
- Find out more about our **software products**
 - Individually (catalog under development)
 - Collected as part of the [Extreme-Scale Scientific Software Stack](#) (E4S)
- Reach out to **member organizations** in your communities of interest
 - Links to member websites: <https://cass.community/about#current-cass-members-and-leadership>
- Participate in **CASS Working Groups**, building throughout the ecosystem
 - E.g., Metrics, Workforce, User Experience, (Ecosystem) Integration, (Software) Foundations, and more!
- **Join CASS** and help us reach a larger portion of the scientific software ecosystem!

<https://cass.community>
cass-steering-committee@email.ornl.gov