

# PESO: Partnering for Scientific Software Ecosystem Stewardship Opportunities

PESO Partnerships			PESO Services	PESO Products
Stakeholder Engagement and Consortium Partnerships			Integration Partnerships	E4S
<b>Consortium</b> <ul style="list-style-type: none"> <li>• Spack support</li> <li>• Products in E4S</li> <li>• SW practices</li> <li>• PIER activities</li> </ul>	<b>Applications Community</b> <ul style="list-style-type: none"> <li>• Spack support</li> <li>• E4S support</li> </ul>	<b>Computing Facilities</b> <ul style="list-style-type: none"> <li>• Spack support</li> <li>• E4S integration</li> <li>• E4S user support</li> </ul>	Provide resources and support for portfolio build, integration, and testing capabilities <ul style="list-style-type: none"> <li>• Spack integration</li> <li>• CI testing</li> <li>• Portfolio support &amp; management</li> </ul> <b>in collaboration with &amp; co-funded by SSOs</b> <ul style="list-style-type: none"> <li>• On-node &amp; inter-node programming systems (w. S4PST)</li> <li>• Math libraries, Data &amp; viz, ML/AI (w. OASIS)</li> <li>• Tools (w. STEP), Workflows (w. SWAS)</li> <li>• NNSA software (funded by NNSA)</li> </ul>	<ul style="list-style-type: none"> <li>• Support for product integration</li> <li>• E4S website</li> <li>• Documentation, Training</li> </ul>
<b>Commercial HPC Companies</b> <ul style="list-style-type: none"> <li>• Engage in joint activities to advance the scientific software ecosystem</li> <li>• Develop business models to further partnerships</li> <li>• Increase release coordination activities</li> </ul>	<b>US Agencies</b> <ul style="list-style-type: none"> <li>• Engage in business model discussions &amp; plans for use of E4S</li> <li>• Work with commercial providers to establish a support model</li> <li>• Explore opportunities for joint product development</li> </ul>	<b>Industrial Users</b> <ul style="list-style-type: none"> <li>• Engage in business model discussions &amp; plans for use of E4S</li> <li>• Work with commercial providers to establish a support model</li> <li>• Explore models for mixed open-proprietary software stacks</li> </ul>		<b>Broadening Participation of Underrepresented Groups in DOE Computing Sciences</b> <ul style="list-style-type: none"> <li>• Coordinate consortium crosscutting-layer PIER planning</li> <li>• Seek support for Sustainable Research Pathways Program</li> <li>• Lead HPC Workforce Development and Retention Action Group</li> </ul> <b>Better Scientific Software (BSSw) Fellowship Program</b> <ul style="list-style-type: none"> <li>• Coordinate BSSw Fellowship Program – which gives recognition and funding to leaders and advocates of high-quality scientific software</li> <li>• Seek sustainable support for BSSw Fellows, Honorable Mentions, travel, and program management for 2025 and beyond</li> </ul>
			<b>SQA &amp; Security</b> <p>Provide infrastructure to support and leverage product team SQA efforts</p> <ul style="list-style-type: none"> <li>• Supply chain, Product quality</li> <li>• Testing, Documentation</li> </ul>	<b>Port &amp; Test Platforms</b> <ul style="list-style-type: none"> <li>• Frank test &amp; development system</li> <li>• Cloud resources</li> <li>• Documentation, training</li> </ul>
				<b>BSSw.io Content (w. COLABS)</b> <ul style="list-style-type: none"> <li>• Short articles on topics related to scientific software productivity and sustainability (recruit, write, review, &amp; edit)</li> </ul>