Customer-Focused
Experience and expertise

2200
Clusters deployed worldwide

100
Petabytes of high performance, dedicated storage delivered to date

25
Years of designing and supporting custom-built computing solutions

1
Chief concern: what does success look like to you?

INDUSTRIES SERVED
EARTH SCIENCES / ENERGY, OIL & GAS
ENGINEERING & MANUFACTURING
FEDERAL GOVERNMENT
FINANCIAL SERVICES
HIGHER EDUCATION
LIFE SCIENCES & HEALTHCARE
Supporting Game Changers

Without playing any games

over 500 active clients
Architects and Makers
Focused on your success

Our proven three-step consultative process ensures your successful, high performance deployment that is both on time and on budget.
DISCOVERY

Critical to your success is our consultative approach to understanding your goals and required deliverables. Our first step is listening and learning about your data capture, computation, and visualization needs.

INTEGRATED SOLUTIONS

Utilizing the latest and greatest in technology, PSSC Labs interprets what we learn from our Discovery process to custom manufacture the right computing platform. Our engineers work closely with you to best optimize the solution for value-added performance and reduced time to production.

DELIVERED EXPERTISE

Once your system has been delivered, our support engineers are available to help ensure your success. PSSC Labs’ Single Point of Contact customer care guarantees that you will receive timely access to knowledgeable personnel that stay with you until any support issue is resolved.

PSSCLABS.COM
Contact a Solutions Architect today. (949) 380-7288
ONS-PREMISE AI, HPC, AND BIG DATA SOLUTIONS

Designed and built for you
Across your data's workflow

INTEGRATING EVERYTHING
When turn-key is actually turn-key.

Custom architected and built to specification in California
FULLY configured and installed for maximum control and performance
Operation and application software installation and testing
“Rack ‘n’ Roll” integration for simple deployment:

<table>
<thead>
<tr>
<th>Hardware Integration</th>
<th>System Settings</th>
<th>All Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Servers, Storage, Networking, Infrastructure, Cabling</td>
<td>BIOS settings, Network settings, RAID settings</td>
<td>Operation System, Applications, File Systems</td>
</tr>
</tbody>
</table>
CUSTOMER SUPPORT
Knowledgeable and accessible

CONTINUITY
Upon delivery and installation of your new PSSC Labs system, our support team is in place to ensure your success. We provide confidence and control by making sure the technician who installed and tested your system is assigned to your support team.

SINGLE POINT OF CONTACT PROMISE
Our commitment to you is that no matter what you need, you’ll always know who to contact. Our support engineers will know you on a first-name basis and respond promptly and knowledgeably to any and all support tickets.

APPLICATION EXPERTISE
It all begins with your work

CERTIFIED COMPATIBILITY
We’ve worked with thousands of companies across a wide variety of industries. In that time, we’ve taken the opportunity to certify our systems compatible with hundreds of open source and commercial applications.

BROAD KNOWLEDGE BASE
Key industries we serve include: Earth Sciences / Energy, Oil & Gas; Engineering & Manufacturing; Federal Government; Financial Services; Higher Education; and Life Sciences & Healthcare.

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Contact a Solutions Architect today. (949) 380-7288
Our extensive family of servers, truly turn-key clusters, and powerful workstations offers the industry’s best TECHNOLOGY backed by the industry’s most KNOWLEDGEABLE engineers.

Our products configured to your organization’s fingerprint deliver a unique competitive advantage.
PowerServe Uniti
AI/HPC Server

**USE CASES**
- Artificial Intelligence
- Machine Learning
- Parallel and Batch Processing
- Containers (Kubernetes)
- Virtualization (VMware®)

**TECH SPECS**
- Intel® and AMD® Processors
- NVIDIA®, Intel®, and AMD® Accelerators
- Supports up to 10 GPU / FPGA
- 1.0 TB+ High Performance Memory Capacity
- Intel® Optane Ready
- Up to 200 Gbps Network Connectivity
- Compatible with TensorFlow, CUDA®, Kubernetes
- Support for up to 8 NVIDIA® A100s with PCI or SXM4 Form Factor
- Liquid Cooling Option

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CloudOOP
Big Data Server

USE CASES
- Big Data
- Data Warehouse
- Tiered Storage
- Parallel File Systems (HDFS, BeeGFS, Ceph)

TECH SPECS
- Up to 144 TB Capacity
- Supports NVMe, SSD, and Rotational Media
- 80 Processor Core Capable
- 1.0 TB+ High Performance Memory Capacity
- Up to 200 Gbps Network Connectivity
- Cloudera® Certified Platform
CloudSeek
Database Server

USE CASES
SQL and NoSQL Database
Edge Computing
Extremely High IOPs
Metadata Storage

TECH SPECS
Up to 184 TB Capacity
Supports NVMe and SSD Media
96 Processor Core Capable
1.0 TB+ High Performance Memory Capacity
Intel® Optane Ready
Up to 200 Gbps Network Connectivity

CAPTURE & STORE
COMPUTATION
VISUALIZATION
SureStore
NAS Server

USE CASES
- NAS / SAN / DAS
- NIFI Data Flow
- Bulk Storage
- Parallel File Systems (HDFS, BeeGFS, Ceph)

TECH SPECS
- Up to 384 TB Capacity
- Supports SSD and Rotational Media
- 96 Processor Core Capable
- 1.0 TB+ High Performance Memory Capacity
- Up to 200 Gbps Network Connectivity
- NFS, ZFS, iSCSI Compatible
AI/HPC Workstations

Powerful and Flexible

**USE CASES**

Artificial Intelligence
Design & Engineering
Life Science

**TECH SPECS**

Intel® Xeon®, AMD® EPYC® and NVIDIA® GPU Support
Up to 128 Processor Cores
Maximum 4 GPU Support
Up to 6 x SSD or 4 SATAIII / SAS Hard Drive
Up to 1 TB Memory Capacity

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PowerWulf ZXR1+
HPC Cluster

USE CASES
Enterprise HPC Environment
Batch and Parallel Computing
Workgroup / Departmental Cluster
Hybrid / On-premise Cloud

TECH SPECS
Scales to Thousands of Processor Cores
NVIDIA®, Intel®, and AMD® Accelerators
High Capacity System Memory
Omnipath® and Mellanox® Network Connectivity
Operation and Management Software Included
Compatible with Thousands of Apps
Liquid Cooling Option

MORE THAN THE RIGHT PARTS. THE RIGHT RESULTS.

CAPTURE & STORE
COMPUTATION
VISUALIZATION
CloudOOP Rax
Big Data Cluster

USE CASES
- Turn-key Big Data Environment
- Enterprise Data Warehouse
- Internet of Things
- Machine Learning

TECH SPECS
- Scales from 100 TBs to 100 PBs
- Supports Tiered Storage
- Redundant Enterprise Features
- Up to 200 Gbps Network Connectivity
- Operation and Management Software Included
- Cloudera® Certified Platform

CAPTURE & STORE
COMPUTATION
VISUALIZATION
Parallux
HPC Storage Cluster

**USE CASES**

- Parallel File Systems (BeeGFS, Ceph)
- IO Bound Data Requirements
- Scale Out Storage

**TECH SPECS**

- Up to 4 PBs per Rack
- 10+ GB/sec File Transfer Rates
- Redundant Enterprise Features
- Omnipath® and Mellanox® Network Connectivity
- Operation and Management Software Included
Our Enterprise-Ready Solutions

For 25+ years, the PSSC Labs team has utilized cutting edge technologies to design scalable, secure, and reliable solutions for nearly every industry. This means that no matter what business objective you are trying to accomplish, we’ll design and deliver the perfect system for you.
Real-time streaming analytics platform

Built for performance. Built to scale.

Directing ever-increasing amounts of data is the new IT challenge. CyberRax Data Flow Pipeline offers all the functionality at an incredible price.

With CyberRax Data Flow Pipeline you have the ability to:

- Process several million transactions per second
- Identify key patterns
- Compare against machine learning modes
- Offer predictive analytics
Highly scalable cybersecurity solutions

Faster time to production. Faster time to value.

Cybersecurity has never been of greater importance than it is now. CyberRax Cybersecurity is the perfect appliance for any SOC.

Open source, turn-key, and cost effective – designed for you

Equipped for:

User and entity behavior analytics (UEBA)

Threat hunting to prevent breaches and compromised data

Historical data visualization

CyberRax is the first open source, scalable, turn-key, cost effective cybersecurity appliance.
Truly turn-key range safety analysis solutions
Identify and prepare for risks.

We understand that your work is critical and that lives really are at stake. Our PowerWulf ACTA Cluster is certified compatible with ACTA’s Range Risk Analysis Tool (RRAT).

PowerWulf ACTA Clusters are supporting operations at these organizations:
Accurate weather predictions with leading-edge technology

Faster processing, accurate predictions, lower cost.

Weather models require specialized computing and storage platforms. PowerWulf ZXR1+ Clusters are engineered for massive parallel processing combined with low latency network capabilities.

Satisfied PowerWulf ZXR1+ Cluster users include:

- SDGE
- Sempra Energy®
- Southern California Edison
- USDA
- NOAA
- NASA
- U.S. Naval Research Laboratory
- Atmospheric Data Solutions LLC

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Powerful genomics compute and storage

Your analytics without limitation.

Your work helps our world understand and solve global issues, and we want to make sure you are never challenged by computational roadblocks. Our solutions have assisted organizations like yours across a wide array of Genomics applications, including:

Cellular and Molecular Biology
Complex Disease Genomics
Genomics in Drug Development
Microbial Genomics
Oncology

Contact us today so we can learn more about your vision and what you’re working to achieve.
We're proud to support these partners

From entrepreneur to enterprise, PSSC Labs delivers your solution.
What does success look like to you?