



Advanced AI labs

Accelerate AI innovation by prototyping, testing, and deploying AI use cases in cutting-edge facilities



SHI's advanced AI labs empower you to explore the latest AI solutions, validate your use cases, and confidently deploy new technologies. With help from our experts, you can easily accelerate innovation and integrate leading AI solutions across your entire organization.

Bring your AI strategy to life

SHI's advanced AI labs give you hands-on experience with cutting-edge AI technologies, enabling you to prototype generative AI applications and test innovative use cases in real-world scenarios.

Collaborate closely with our data scientists, certified AI architects, and engineers to quickly build, rigorously test, and validate AI solutions on a small scale – prior to full production deployment. Our approach allows you to:

- Explore next-generation AI technology stacks.
- Test and validate use cases.
- Assess the feasibility and impact of AI and large language models (LLMs).
- Seamlessly integrate large multimodal models (LMMs) with data modalities such as text, images, audio, video, and more.
- Mentor with SHI's data scientists, certified AI architects, and engineers.
- Utilize Dell hardware to validate workloads against the proper configurations.

Transform your business with AI deployment

Investing in AI infrastructure encompasses deployment, activation, administration, and security, all of which bring a substantial learning curve. SHI's advanced AI labs provide crucial support at every step. We assist with the initial setup of your AI platform, provide training for platform administration, and ensure sustained utilization.

Solution benefits

SHI's AI COE and advanced AI labs provide:

- **Speed and agility:** We quickly test and validate whether a concept can be implemented within your environment using existing AI technologies and platforms in our lab.
- **Reliable expertise:** Our teams have years of experience solving the toughest engineering challenges.
- **Risk-free validation and financial planning:** SHI's labs give you the infrastructure and expertise you need, so you can focus on validating outcomes before making large investments.
- **Outcome-focused collaboration:** SHI is your secure, trusted partner with lines of business to accomplish your goals quickly and efficiently.

Unlock the future with Dell AI Factory

Transform your IT ecosystem with Dell's comprehensive AI solutions.

The Dell AI Factory with NVIDIA delivers a complete portfolio of AI technologies, featuring validated and turnkey solutions with expert services that help you achieve AI outcomes faster.

Extend your enterprise with AI and generative AI at scale, powered by the broad Dell portfolio of AI infrastructure and services. In addition, NVIDIA's industry-leading accelerated computing offers a full stack, including GPUs, networking, NVIDIA AI Enterprise software, NVIDIA Inference Microservices (NIM), models, and agent blueprints.



Our advanced AI labs offer a comprehensive suite of resources:

Dell in advanced AI labs: Experience leading Dell AI platforms in a secure environment. Configure and deploy solutions to drive innovation with:

Servers:

- PowerEdge XE9680
- PowerEdge R660s
- PowerEdge R760XA

Storage:

- PowerScale F710 All NVME NFS Storage

Networking:

- PowerSwitch Z9432 Fabric
- PowerSwitch N3248
- PowerSwitch S5448F

Advanced AI demo lab: Get hands-on experience with AI use cases. Our certified AI experts guide you through:

- Code generation
- Intelligent automation
- Conversational user interface
- Anomaly detection
- Vision AI (video analytics)
- Next-generation infrastructure management
- GPU resource management monitoring and optimization
- MLOPS solutions

Generative AI POC lab: Our secure POC environment gives you access to generative AI at your own pace and price point. Prove your use cases by leveraging our labs and expertise to execute standard 2-week or custom 6-week generative AI POCs, including:

- Collaborative ideation
- Rapid prototyping
- Scale to successful production rollout

Spotlight on customer success



**Financial services:
Algorithmic trading company**

- Performed a site survey to ensure power and cooling requirements supported AI technology deployment.
- Readied the customer for additional scaling of NVIDIA infrastructure.



**Retail:
Supply chain management company**

- Assessed the company that was using 60 ML models to analyze customer behavior and predict churn.
- Built a real-time churn prediction engine using a deep learning model, which was an RNN-CNN hybrid model.
- Implemented Model Explainability Framework based on LIME and Information Leakage.

Why SHI and Dell

SHI and Dell are committed to bridging the gap between technology challenges and success through a comprehensive portfolio of solutions. Our mission is to deliver cost-effective, tailored solutions that meet each customer's specific business needs. As a Dell Titanium Black partner, SHI provides exceptional service and certified expertise, making us your go-to partner for bringing IT projects to life and solving what's next.

Ready to transform your business with AI? [Schedule a consultation](#) with our experts today.