DISCOVER THE CERN OPENLAB PROJECTS

CERN openlab

Sustainable Infrastructures

Heterogeneous Computing, Platforms and HPC systems

Advanced Storage, Data Management and Networks

Computing Architectures and Software Engineering

Infrastructures and Techniques for Artificial Intelligence

Applications for Society and Environment

CERN openlab • micron

Real-time Data Processing for Level-1 Trigger: Scouting at CMS using CXL Memory-Lake Architecture

CERN openlab • ORACLE

Anomaly Detection for Ultra-Low Latency Event Selection at the LHC

CERN openlab • SIMONS FOUNDATION

Applied Multi-Disciplinary AI on High-Performance Computing

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CERN openlab • ORACLE

Oracle Kubernetes Operator

CERN openlab • ORACLE

Cost Optimization and Sustainability for Public Cloud Provider

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Integration of Oracle Cloud Resources into CERN IT Business Continuity & Disaster Recovery

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Next Generation Archiver for WinCC OA

CERN openlab • SIEMENS

Data Analytics for Industrial Control Systems

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Sustainable Infrastructures

Advanced Storage, Data Management and Networks

CERN openlab ● PURESTORAGE®

Next-Generation Exascale Flash Storage

Emerging Technologies

New Materials for Long-Term Digital Storage

CERN openlab ● cerabyte

Evaluation of Cerabyte: Archival Data Storage Technology using Ceramic Nanolayers

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Heterogeneous Computing, Platforms and HPC systems

Infrastructures and Techniques for Artificial Intelligence

CERN openlab ● ODISSEE

Online Data Intensive Solutions for Science in the Exabytes Era (ODISSEE)

CERN openlab ● SPECTRUM

SPECTRUM: Strategical and technical blueprint for an exabyte-scale research data federation and compute continuum for data-intensive sciences

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Emerging Technologies

Digital Twins

CERN openlab • interTwin

interTwin: Co-designing and Prototyping an Interdisciplinary Digital Twin Engine

CERN openlab • Johnson & Johnson

Digital Twin: Data Science Engine

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CERN openlab • RAISE Center of Excellence

Center of Excellence on AI and Simulation-Based Engineering at Exascale (CoE RAISE)

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EMP2: Environmental Modelling and Prediction Platform

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BioDynaMo: Biology Dynamics Modeller

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Strategic Partnership on Artificial Intelligence

Contact us for more information!

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Accelerating computing for science

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