

SoM Research Enclave User Agreement

Overview

The SoM Research Enclave was established in February 2024 to meet the growing demand for high-performance computing (HPC) resources for sensitive data within the Duke School of Medicine. Operated as a Service Center, the Enclave follows a cost-recovery model to ensure:

- Competitive pricing
- Equitable access
- Compliance with federal Facilities and Administration (F&A) rate agreements

The SoM Research Enclave offers HPC environments tailored to specific compliance needs:

Environment	Compliance Standard	Use Case
SOM-RCC	NIST 800-171	dbGaP, genomic data
SOM-PACE	NIST 800-53	Unconsented PHI

Pricing Structure

CPU-Based Projects

Size	Compute Hours	Storage	Price	Notes
Small	186,000	10 TB	\$850	Based on total consumption
Medium	620,000	30 TB	\$1,200	
Large	930,000	70 TB	\$2,000	

GPU-Based Projects

Size	Compute Hours	Storage	Price	Notes
Small	432	10 TB	\$1,000	Based on total consumption
Medium	1,440	30 TB	\$1,500	
Large	2,160	70 TB	\$2,500	

Additional Services

Service	Rate	Details
Timeshare (BYO GPU)	\$2,000/year	Annual support
Development/Pipeline Consulting	\$70/hour	Billed monthly
Transfer Agent Training	\$125/person	One-time training
Honest Broker Extraction	\$50/hour	As needed
Federated Honest Broker Training	\$300/training	Group session

Note: Project size is determined during onboarding based on project duration and workflow.

Billing & Reporting

Billing Policies

- Project and timeshare costs must be prepaid using an approved req ID.
- Allocations are based on estimated compute hours and maximum scratch storage.
- No proration or refunds for unused hours at fiscal year-end.
- Notifications will be sent when nearing compute or storage limits.
- Additional compute/storage can be added mid-project.
- Projects are reviewed annually for size/rate adjustments.

Honest Broker Services

- SoM-PACE data export must go through the Honest Broker service provided by DOCR
- Transfer Agent training is available

Grant Funding

- Only data related to the funded grant may be used.
- For multiple grants, consult an OASIS analyst to align workflows and allocations.

Development Services

- Optional and billed monthly based on actual usage.
- Cost estimates available after consultation.

Usage Reporting

- Compute usage is tracked in hours (CPU/GPU).
- Storage is tracked in bytes and tied to project/fund code.
- Usage reports are provided to monitor consumption.

User Guidelines (Effective 7/1/25)

Access Requirements

- Must have a Duke Health (DHE) Active Directory account.
- Sponsored accounts available for non-Duke users.
- NETID and passwords must not be shared.
- Misuse may result in account suspension or job cancellation.
- Users are added to the OASIS HPC listserv (optional to unsubscribe).

Data Management

- Users are responsible for data compliance (IRB, Duke policies).
- Long-term storage should use Duke-approved services (e.g., Isilon, Azure).
- Scratch space is for active research only:
- Files not accessed in 60 days will be deleted.
- One-week notice will be provided before deletion.
- "Touch" commands to alter timestamps are prohibited.

Job Submission

- Contact OASIS before submitting large job batches.
- Jobs that crash the scheduler may be deleted.
- Cluster use is restricted to Duke research purposes only.
- Prohibited: financial gain, commercial use, unauthorized data mining, or use of copyrighted materials.

PI Responsibilities

- **Managing Data Access:** Ensure that all data access permissions are granted appropriately and reviewed regularly. Implement measures to protect sensitive data from unauthorized access.
- **Managing Account Access:** Oversee the creation, modification, and deletion of user accounts. Ensure that account access is granted based on the principle of least privilege.
- **Adherence to Data Security Policies:** Ensure compliance with all relevant data security policies and standards. Regularly review and update security protocols to address emerging threats.
- **Reporting Breaches:** Establish a clear protocol for reporting data breaches. Ensure that all breaches are reported promptly and investigated thoroughly.

Billing Checklist

Name:

Department:

Project:

Req ID:

Signature & Date: