

Institute for Artificial Intelligence — Computing Resources

All UGA faculty and researchers have access to Sapelo2, UGA's shared high-performance cluster operated by the Georgia Advanced Computing Resource Center (GACRC). Allocation is available to all UGA faculty at no charge for standard use.

GACRC Regular Nodes

Resource	Description
Total Cores / Memory	43,732 cores; 227.1 TB aggregate memory
GPU Nodes (H100)	12 nodes — Intel Xeon SapphireRapids, 64C, 1 TB RAM, 4× NVIDIA H100 each
GPU Nodes (A100)	14 nodes — AMD EPYC Milan, 64C, 1 TB RAM, 4× NVIDIA A100 each
GPU Nodes (L4)	12 nodes — AMD EPYC Genoa, 128C, 745 GB RAM, 4× NVIDIA L4 each
Storage	200 GB/investigator; 1.5 TB/group (500 GB work + 1 TB project); shared Lustre scratch with no per-user quota

Institute for AI (IAI) affiliated faculty are additionally granted priority access to three dedicated compute nodes housed within the GACRC infrastructure (described below). Cluster resources can be accessed by IAI affiliated faculty through multiple channels, including automated job submission, interactive login, and an on-demand web portal. Access can also be facilitated for external partners on projects with IAI faculty.

6U NVIDIA B200

Component	Specification
CPU / Memory	2× AMD EPYC 9575F 'Turin', 64C each (128 total) / 1.5 TB
Local Storage	7 TB NVMe SSD
GPU	HGX 8× NVIDIA B200, 192 GB VRAM each

2P NVIDIA L40S

Component	Specification
CPU / Memory	2× Intel Xeon Gold 6548Y+, 32C each (64 total) / 384 GB
Local Storage	3.84 TB NVMe SSD
GPU	4× NVIDIA L40S, 48 GB VRAM each

AMD MI210

Component	Specification
CPU / Memory	1× AMD EPYC 9534, 64C / 768 GB
Local Storage	3.84 TB NVMe SSD
GPU	3× AMD Instinct MI210, 64 GB VRAM each

IAI dedicates a small portion of its compute nodes to an on-campus web application programming interface to high-demand open-weight large language models, including OpenAI GPT-OSS-120B, for shared use amongst all IAI faculty.

IAI Laboratory Spaces Institute for AI occupies 2,393 sq. ft. of office, meeting, and lab space on the 5th floor of the Boyd Graduate Studies Research Center. Two shared graduate assistant labs (574 sq. ft. combined) seat 14 students and are equipped with 8 Windows desktop PCs (Dell, Intel Core i7, 16 GB RAM) and 10+ Linux workstations (Intel Core i7–i9, 64–256 GB DDR4 RAM, 1–12 TB storage, NVIDIA GPUs). A separate 237 sq. ft. room provides 5 additional Windows PCs for student coursework and research. The Institute also maintains Windows servers in the Boyd Data Center for web hosting and data/code dissemination. It has dedicated access to two large conference rooms with audio/video equipment for holding meetings.

CAES High Performance Student Lab CAES IT is pleased to announce the establishment of a new high-performance PC lab for all students and faculty. This initiative provides cutting-edge equipment to support academic and research endeavors with a particular emphasis on precision agriculture and artificial intelligence applications allowing students to complete assignments and conduct research requiring more technical capability than standard PCs.

High-Performance Computing Lab Hardware Specifications

Device	ThinkStation P8
Processor	AMD Ryzen Threadripper Pro 7955WX
Graphics	NVIDIA RTX 4500 Ada Generation 24GB GDDR6
OS	Windows 11
Memory	128 GB
Storage	1 TB SSD M.2

The following software is currently available in three locations. All software requests should be directed to the CAES Service Desk at oithelp@uga.edu.

ArcGIS Pro	R/R Studio	Anaconda	Pix4D Mapper
Pix4D Fields	Adobe Creative Cloud	AutoDesk Suite	JMP Pro 17
FarmWorks	SAS	MatLab	Google Earth Pro
NV5 Geospatial	Python 3.12	DB Browser	

Athens High-Performance Lab

- Address: 120 Carlton Street, Athens GA 30602
- Building Name: Miller Plant Sciences
- Room Number: 1203
- Total Devices Available: 20
- Book the lab: <https://25live.collegenet.com/pro/uga>
- IT Support: CAES OIT Service Desk oithelp@uga.edu



Griffin High-Performance Lab

- Address: 1109 Experiment Street, SLC 107, Griffin, GA 30223
- Building Name: Student Learning Center (SLC)
- Room Number: 107
- Total Device Available: 4
- Book the lab: <https://griffin.uga.edu/oit/>
- IT Support: CAES OIT Griffin grifoit@uga.edu



Tifton High-Performance Lab

- Address: 2353 Rainwater Road, Tifton, GA 31793
- Building Name: Nespal South 4897
- Room Number: 601
- Total Device Available: 10
- Book the lab: helptif@uga.edu
- IT Support: CAES Tifton helptif@uga.edu

