ARTIFICIAL INTELLIGENCE
in New York's Capital Region

CENTER for ECONOMIC GROWTH

In 2021, the Brookings Institute identified the Capital Region as one of 87 potential artificial intelligence adoption centers. The region stood out nationally for its AI-related federal contracts and R&D conducted by **GE Research** in Niskayuna, **Kitware** in Halfmoon, and **Rensselaer Polytechnic Institute** in Troy. The region is home not only to **IBM's Artificial Intelligence Hardware Center** at the Albany Nanotech Complex, but also one of the most powerful supercomputers on a private university campus: RPI's 8 petaflop IBM POWER9-equipped AI supercomputer (**AiMOS**). Adding to that is the **University at Albany**, which is planning to build the most powerful supercomputer on a university as part of a $200 million initiative, and RPI is founding a new Rensselaer Institute for Data, Artificial Intelligence, and Computing (DAIC).

AiMOS RPI, Troy

NATIONAL ARTIFICIAL INTELLIGENCE RESEARCH INSTITUTES

- **NSF AI Institute for Intelligent Cyberinfrastructure with Computational Learning in the Environment (ICICLE)**
  - o Ohio State University (lead)
    - ▪ RPI (principal organization)
- **NSF AI Institute for Research on Trustworthy AI in Weather, Climate, and Coastal Oceanography (AI2ES)**
  - o University of Oklahoma (lead)
    - ▪ UAlbany (principal organization)

AI STARTUPS

- **Aptihealth**, Troy: AI-driven digital behavioral health platform
- **Ligo Analytics**, Clifton Park: open-source AI software infrastructure
- **Our.News**, Troy: uses AI to rate the credibility of news articles
- **Dumbstruck**, Schenectady: uses AI to measure the emotional impact of marketing videos
- **Flow Active**, Troy: has developed AI-based, IoT water monitoring solutions for leak identification
- **FormedAI**, Schenectady: AI-enhanced automated data capture, workflow, and web-to-print solutions
- **Early Alzheimer's Diagnostics**, Albany: spectroscopic AI/ML-powered Alzheimer's diagnosis
- **Helios Life Enterprises**, Albany: advanced voice-processing and AI technology to extract this distinct data from tone of voice
- **MyLÚA Health**, Albany: AI-supported digital maternal care platform focused on improving prenatal and postpartum health care

OTHER ACADEMIC ASSETS

- **SUNY Polytechnic**
  - o IBM Artificial Intelligence Hardware Center
  - o New York State Data Center
- **Rensselaer Polytechnic Institute**
  - o Center for Computational Innovations (CCI)
    - ▪ 8 petaflop IBM POWER9-equipped AI supercomputer (AiMOS)
  - o Rensselaer Institute for Data, Artificial Intelligence, and Computing (DAIC)
  - o Rensselaer Institute for Data Exploration and Applications (IDEA)
  - o Rensselaer Artificial Intelligence and Reasoning Laboratory (RAIR Lab)
  - o Scientific Computation Research Center (SCOREC)
  - o Health Empowerment by Analytics Learning and Semantics (HEALS) Center (IBM funded)
  - o Rensselaer-IBM Artificial Intelligence Research Collaboration (AIRC)
- **University at Albany**
  - o College of Emergency Preparedness, Homeland Security and Cybersecurity
  - o Atmospheric Sciences Research Center
  - o NYS Mesonet
  - o ExTREME Collaboration, Innovation, & Technology (xCite)
  - o NY State Investment - AI Cluster
- **Siena College Institute for Artificial Intelligence**