

# Resources and Funding Opportunities for Research and Education

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Amy Apon, Program Officer

Office of Advanced Cyberinfrastructure

US National Science Foundation

January 14, 2026





# OAC was created to transform science and engineering research through an integrated cyberinfrastructure ecosystem



CloudBank

Computing, data infrastructure,  
regional networking



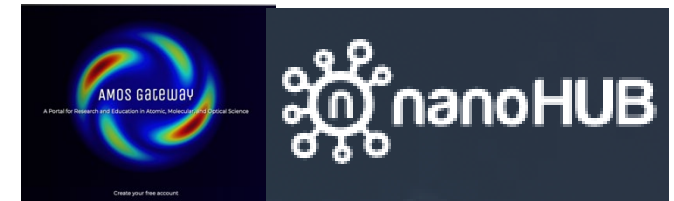
Community building, training and  
user support



>25,000  
researchers  
and students  
supported  
by OAC  
resources



Cybersecurity, networking and data  
lifecycle Support for NSF's Major Facilities



Galaxy  
PROJECT



Software Frameworks  
and Gateways

OAC nurtures **early-stage** infrastructure research and pilot awards to **national scale** resources

# Internal news

- NSF headquarters is moving → a nearby building in Alexandria
- NSF is reorganizing, including the CISE Directorate. OAC will stay together as an Office, but our operations and support staff will change.
  - Ed Walker will become the federal staff head of OAC. Amy Walton will be promoted to the CISE front office.
- NSF is in the process of simplifying solicitations and consolidating opportunities to fewer, broader programs (more on this in later slides)



**Katie Antypas**



**Ed Walker**



**Amy Walton**



**Andrey Kanaev**



**Marlon Pierce**



**Kevin Thompson**



**Alejandro Suarez**



**Sharmistha Bagchi-Sen**



**Bob Chadduck**



**Sharon Geva**



**Amy Apon**



**Sheikh Ghafoor**



**Plato Smith**

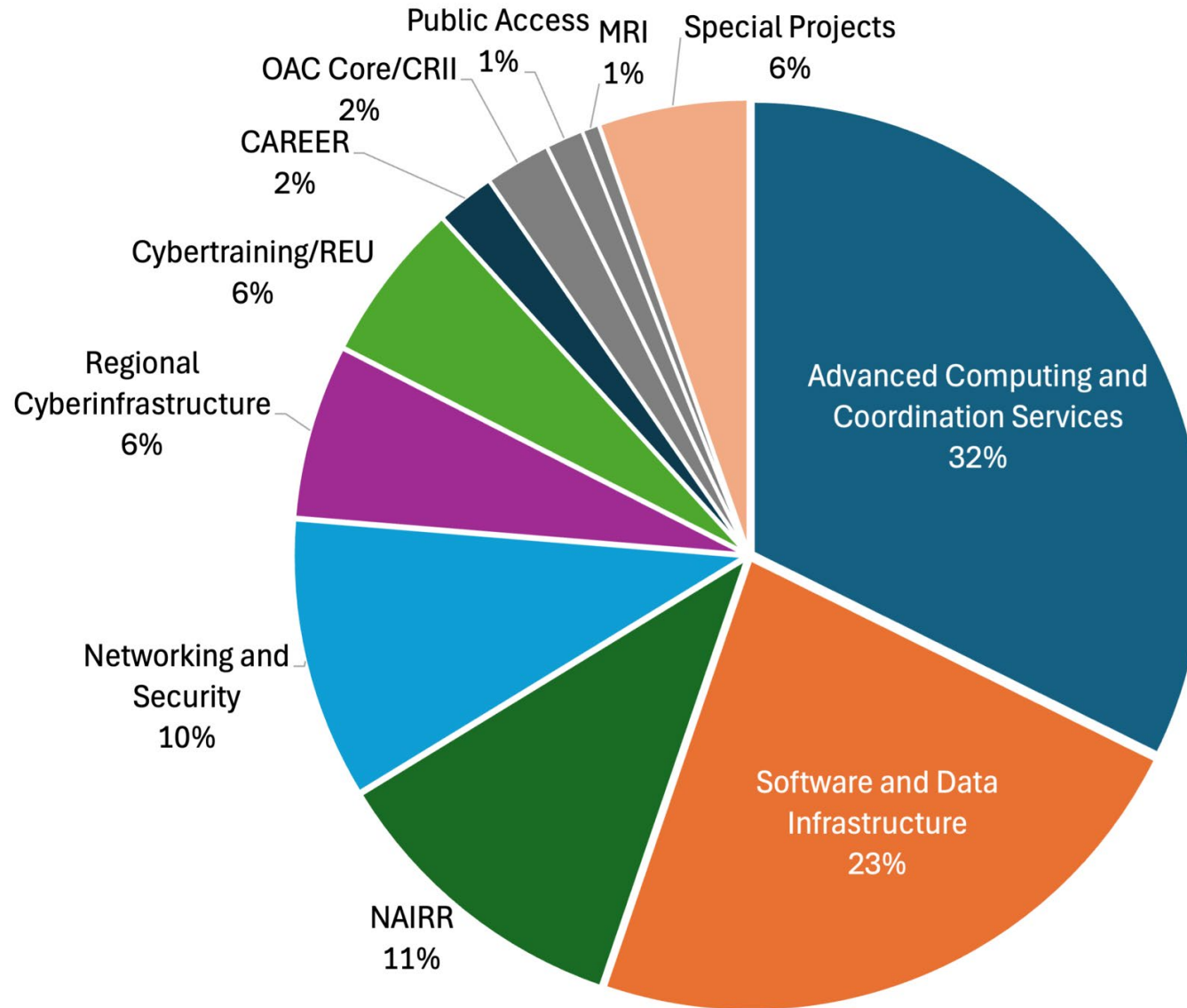


**Wen-Wen Tung**





# OAC FY25 Funding Breakdown by Program



**\$249M ~380 award actions**  
**Coop Agreements \$103M**  
**Standard Grants \$146M**  
**21 EAGER Awards**

**Note that Leadership Class  
Computing Facility funded  
out of the MREFC account**





# OAC provides many resources and services!

*Examples include:*

## National Computing, Data, and AI Resources



*Throughput Computing, Data,  
and Support*



*Science Gateways*



## Training, Workshops, and More

- <https://support.access-ci.org/events>
- [https://portal.osg-htc.org/documentation/support\\_and\\_training/training/materials/](https://portal.osg-htc.org/documentation/support_and_training/training/materials/)
- <https://nairrpilot.org/pilotevents>
- <https://www.nrp.ai/training/>

## Community and Workforce Development



*Minority Serving CI Consortium*

[www.ms-cc.org](http://www.ms-cc.org)



*Campus Research Computing  
Consortium*

[www.carcc.org](http://www.carcc.org)



- ### Portals
- ACCESS: <https://access-ci.org/>
  - PATH: <https://path-cc.io/>
  - NAIRR Pilot: <https://nairrpilot.org>
  - CaRCC: <https://carcc.org/>
  - SGX3: <https://sciencegateways.org/>
  - LCCF: <https://lccf.tacc.utexas.edu/>
  - MSCC: <https://www.ms-cc.org/>
  - Trusted CI: <https://www.trustedci.org/>

# Highlights of OAC NetSec Awards





# OAC investments played key role in Vera Rubin first light nurturing networking R&D and supporting training programs and cybersecurity community years before first light



**Cybertraining: LSST (Vera Rubin) Data Science Fellowship Program**  
(#1829740 Northwestern U, PI Miller)  
\$500K

A two-year graduate training program designed to teach skills for Vera Ruben Science



**International Networking Program: AmLight award**  
(#0963053, 1140833, 1741598, 2029283, 2225313, 1140833, 2537489 FIU)

- High-speed network endpoints, software and telemetry for RT data transfer to/from SLAC





# PATH Partnership to Advance THROUGHPUT COMPUTING

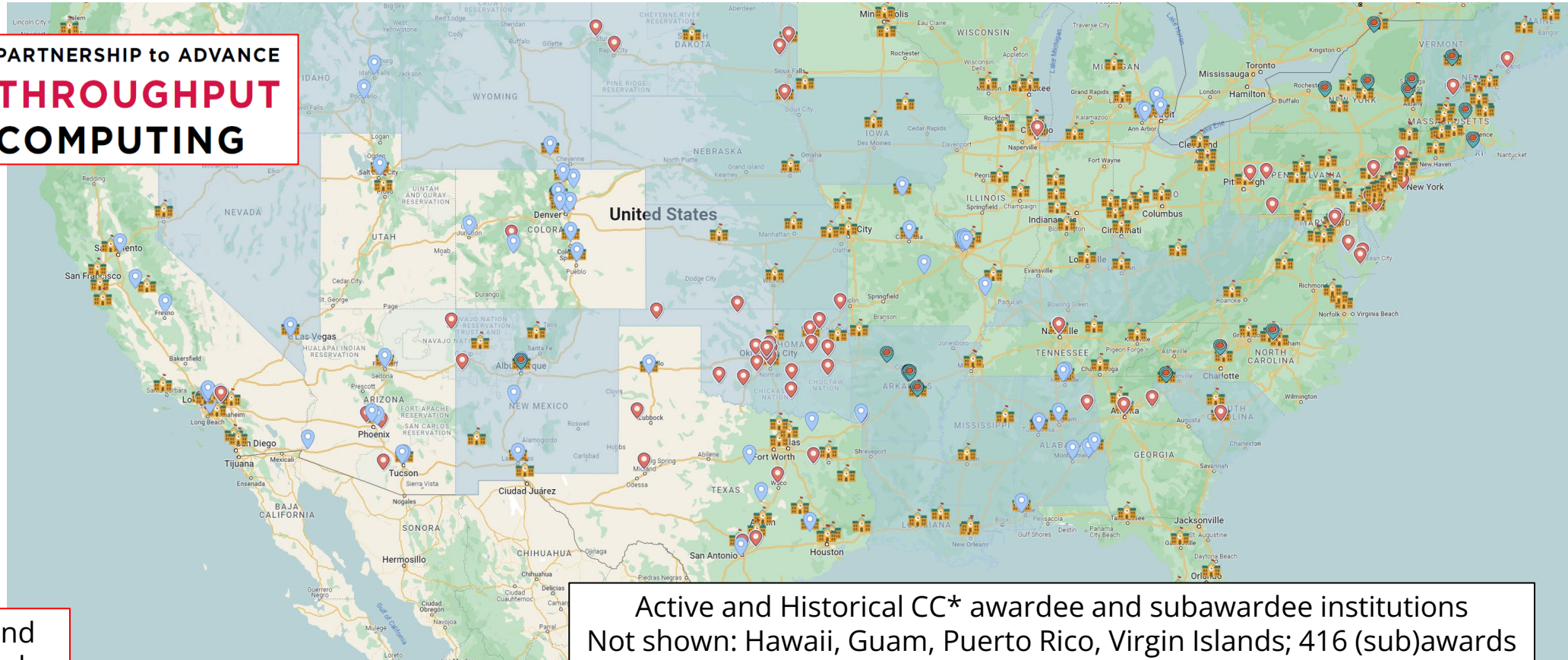


Campus computing and data resources shared onto the US national cyberinfrastructure via OSG

<https://path-cc.io/>



CC\* awardess share 20% of compute and storage, most often to OSPool and OSDF





# CC\* Regional Computing: CENVAL-ARC: Central Valley Accessible Research and Computational Hub

## Challenge Project Seeks to Address:

Empowering researchers and students from underserved Institutions in California's Central Valley by providing cutting-edge computational resources and expertise.

## Solution(s) or Deliverables:

- Adding compute capacity
- CENVAL-ARC symposium

**NSF OAC Award # 2346744**



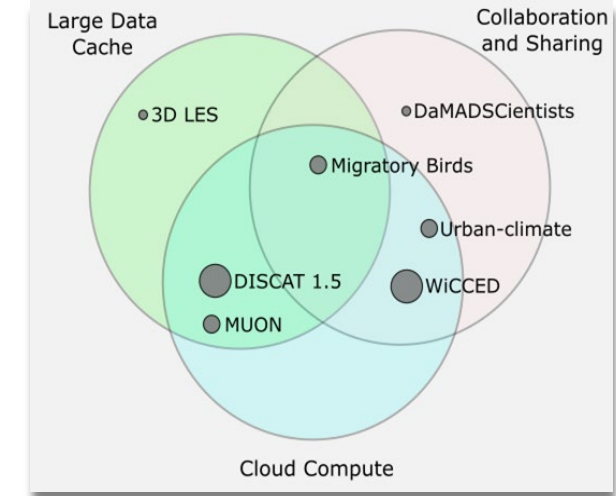
# CC\* Data Storage: Shareable, Equitable, and Extensible Data Storage for Collaborative Data-intensive Research

## Science-Driven Active Data Preservation & Dissemination

- Two 1.2 Petabyte S3 data storage systems
- Collaboration between UD's Information Technologies; Library, Museums and Press; research faculty
- Using Open Storage Network, integrated with existing local and national resources (e.g., DARWIN, ACCESS)

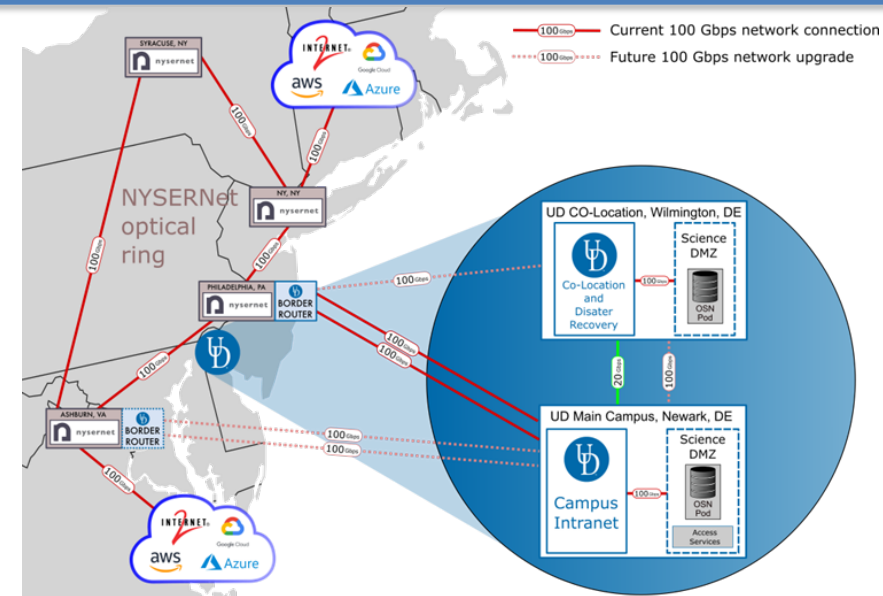
## Diverse Science Drivers

- Research *and* education spanning engineering, natural & social sciences
- Differing needs in data cache size, collaboration & sharing, and cloud compute



## Broader Impact and Intellectual Merit

- Catalyzing **interdisciplinary research and education** at UD
- 20% of the resource will address **national storage needs**, via ACCESS national infrastructure and the University's DARWIN HPC (level 2 ACCESS) system
- Integration with **Dataverse** to enable **FAIR Principles**



**Integrated into UD's Science DMZ, with dual redundant 100GB connectivity into Internet2**





# Distributed shared resources to accelerate research and education

<https://nrp.ai/>

**NRP provides access to cutting-edge technologies in AI, high-performance computing, data storage, and networking.**

**Led by UC San Diego, the U Nebraska-Lincoln, and the Massachusetts Green High Performance Computing Center. Supported by NSF with resource contributions from over 50 institutions.**

## Artificial Intelligence

Conduct AI research, education, classes, and workshops empowered with GPUs, FPGAs, and specialized hardware for advanced AI projects.

## Resources for the Classroom

Access GPUs, CPUs, and storage via convenient interfaces like JupyterHub, Coder & LLM service

## Advancing AI Infrastructure Ownership

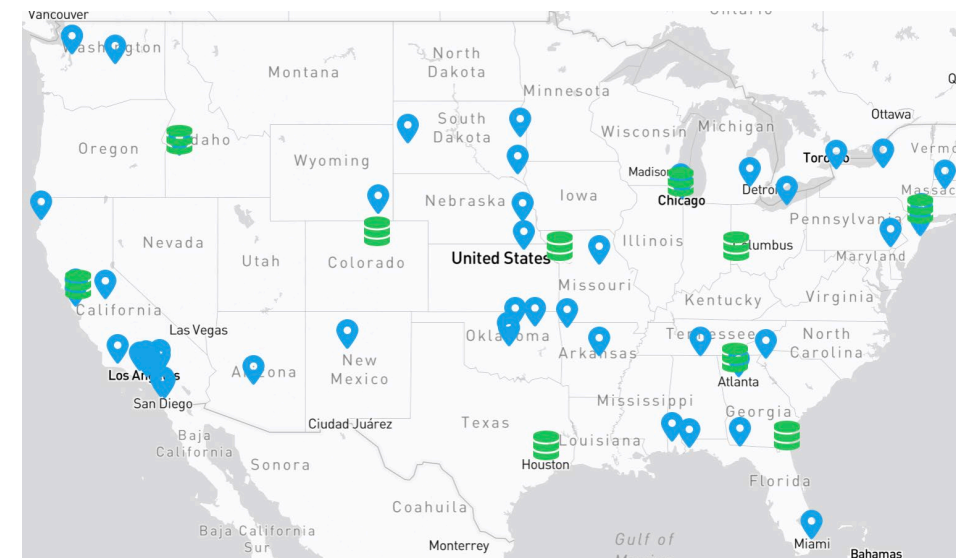
NRP aggregates system & cybersecurity management, and research & educational computing support for non-R1 institutions

## Large Data Pools

Share and access your data on NRP's nodes across the world for experiments.

**NRP users are students, educators, and researchers from 2-yr and 4-yr institutions, museums, libraries, and healthcare centers,**

**NRP offers to operate your AI equipment in your data center, thus reducing your TCO of your AI Infrastructure investment**



*400+ NRP nodes at 84 organizations, including 21 Points of Presence and 6 international sites, representing over 1,400 GPUs and 20PB of storage.*

**To learn more, check out NRP training <https://nrp.ai/training/>**

# NAIRR Pilot Classrooms

NRP NATIONAL RESEARCH  
PLATFORM

**NRP** is a platform for collaborative innovation

- **Shared** hardware, software and models

❑ Students use Jupyter notebooks

❑ Wide variety of GPUs → suitable for classrooms

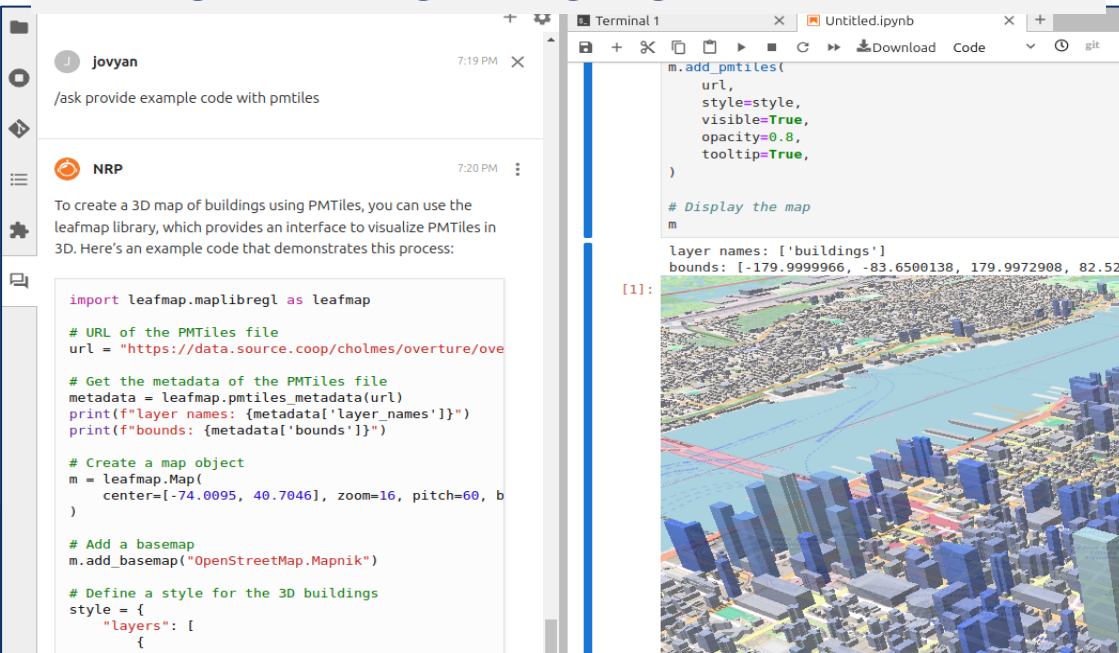
Supporting  
**15 NAIRR Pilot  
Classrooms**



Classroom of **Carl Boettiger**  
University of California, Berkeley

- 122 students
- Active learning classroom (NAIRR240249)

## Coding with Large Language Models (LLM)



## Preparing students for the AI-driven future

- Hosting open LLM models locally  
→ ensures data security and privacy
- Integrated AI with Jupyter notebook  
→ code assistant
- Enables students and researchers to easily build applications using LLMs

**CA 30x30 Planning & Assessment Prototype using NRP LLMs**

<https://huggingface.co/spaces/boettiger-lab/ca-30x30>

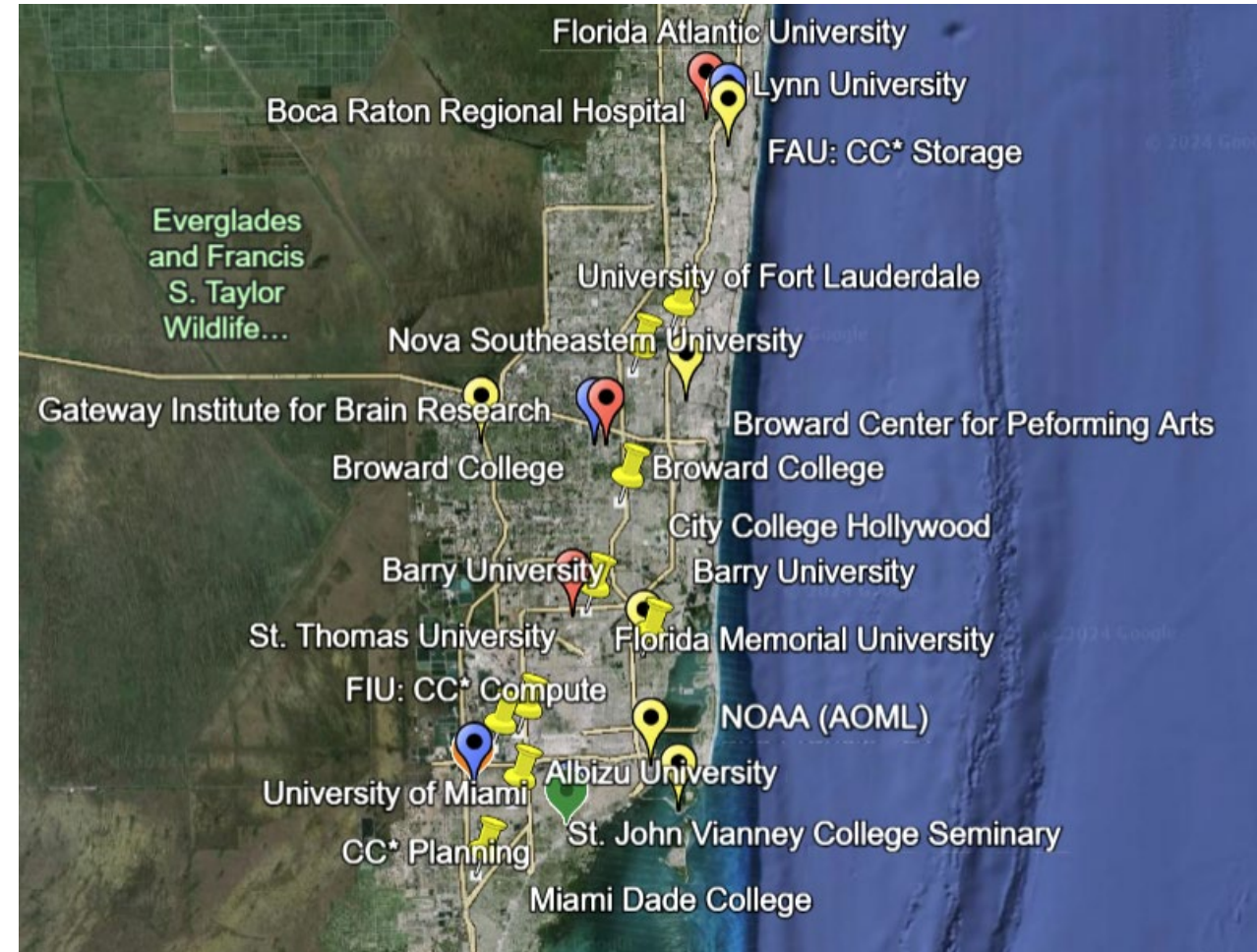
UC San Diego



# CC\* Planning: South Florida Regional Data Science Cyberinfrastructure

- Regional Partnerships for science and cyberinfrastructure engagement
- Shared Resources across Common Goals
- Future Expertise building
- Economic Innovation
- Repurposed Tools and Knowledgebase

**NSF OAC Award #2346318**



# NV-DICE: Nevada Vision for a co-Developed Impactful Cyberinfrastructure Ecosystem

## Challenge Project Seeks to Address: Planning Research IT for Nevada

- One System, several Institutions
- Historical lack of IT investments
- Leveraging the REN as neutral territory
- Need for RCD community of practice
- Need to assess needs & capabilities

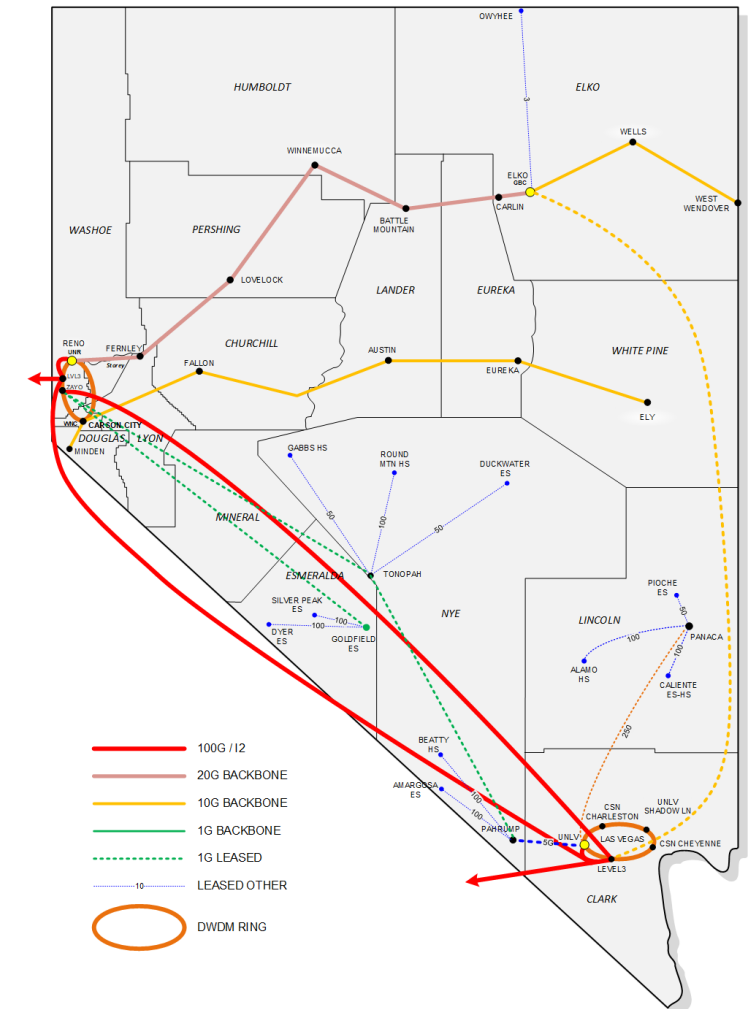
## Solution(s) or Deliverables: Strategic framework

- Statewide RCD professional Office Hours
- Planning workshops
- Institutional reviews/surveys
- Institutional CI Plans
- State CI Plan
- Pilot cooperative technology (IAM, research network, dev environments)

Scientific Impact and Broader Impact: *Focus on Team Science*

**NSF OAC Award #2346263**

NSHE/SCS NevadaNet 2022





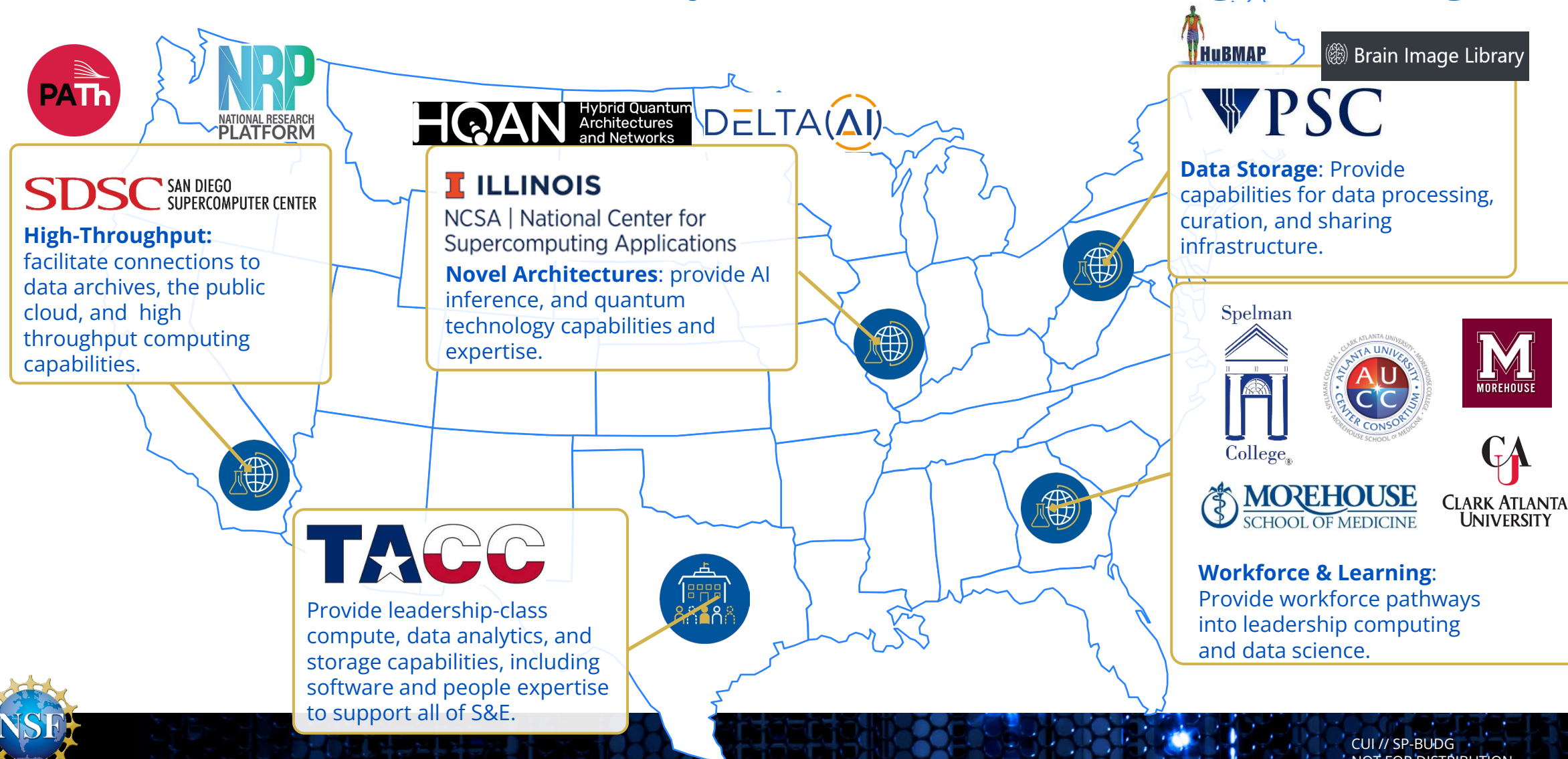
# Leadership Class Computing Facility





NSF LEADERSHIP-CLASS  
COMPUTING FACILITY  
TEXAS ADVANCED COMPUTING CENTER  
THE UNIVERSITY OF TEXAS AT AUSTIN

# Distributed Advanced Computing Facility for Science & Engineering







NSF LEADERSHIP-CLASS  
COMPUTING FACILITY  
TEXAS ADVANCED COMPUTING CENTER  
THE UNIVERSITY OF TEXAS AT AUSTIN

# First installations support core Capability for Large-Scale Simulation, AI and Data Analytics

**DELL**Technologies



## Phase 1: GPU deployment

2000 PowerEdge dual-socket "Blackwell" nodes  
Delivery: Nov 2025, Early Users: Mar 2026

## Phase 2: CPU deployment

5000 PowerEdge dual-socket "Vera" nodes  
Delivery: Oct 2025, Early Users: Jan 2027

**LCCF will enter production in Q2 FY 2027.**  
**Operating cost: \$40M/year**  
**Duration: 10 years**

- Primary partition will be **batch-based** resource
- Secondary partition will support **interactive use** and **persistence services**
- Software stack for this system will support **containers** and "**cloud-like**" programming models as well as more traditional scientific computing
- **390PB** of **flash** disk will provide both scratch storage and a space for publishing data collections.
- **800PB archive** system will provide long-term storage.
  - Replacing Ranch archive system





# LCCF is a “Facility for Facilities”



- 150TB data stored at TACC
- Replaced Data Repo when DOE ended partnership
- Part of LCCF Characteristic Science Application (CSA) team



- 500TB data flow for ATLAS
- 3.34PB data flow for CMS
- Over 6M node hours consumed on Frontera to date



- Partner in OOI operations award to provide backup storage
- 200TB data transferred to date



- DesignSafe-CI (NHERI awardee) – 11 years in operations
- Provides CI, data repo, compute capability for NHERI experimental facilities, simulation center, etc.



- Contributing to design of new NSF radio telescope major facility
- LCCF part of data processing facility - \$275M (CDR estimate)



- Earth systems modelling group part of LCCF CSA
- Close collaboration with Wyoming Supercomputing Center
- Exploring possibility of proving data backup for NCAR





# Opportunity of LCCF to become an anchor for computing and data activities for NSF

- A decade long commitment to an advance computing and data facility is an opportunity for our community
- Going forward we will be having discussions with the community on how to leverage this facility for other OAC and NSF activities



**NSF LEADERSHIP-CLASS  
COMPUTING FACILITY**  
TEXAS ADVANCED COMPUTING CENTER  
THE UNIVERSITY OF TEXAS AT AUSTIN



# ACCESS and the National AI Research Resource





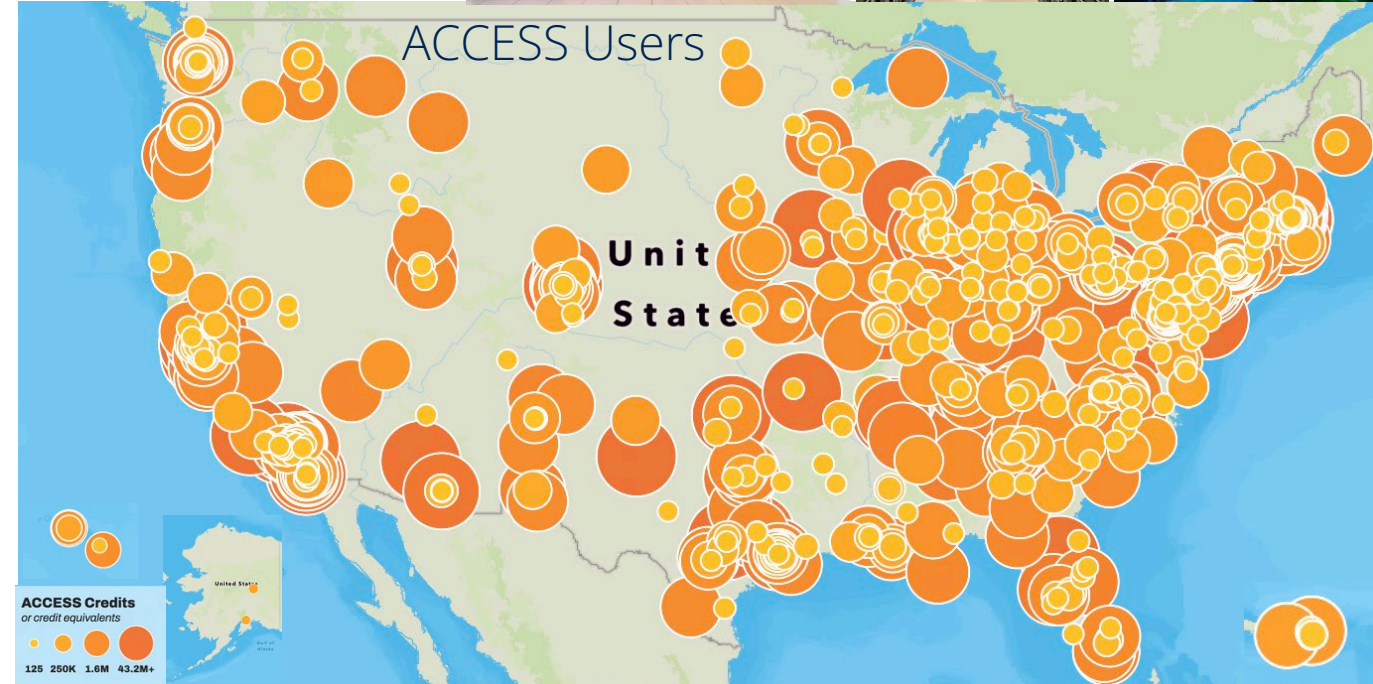
# ACCESS program provides access to advanced computing and data resources



Provides computing access and services to 20K researchers and students across the country

Small 'explore' allocations available with just a paragraph describing what you want to accomplish

[access-ci.org](https://access-ci.org)



# NAIRR Pilot Completed! We built the key foundations needed for a scalable NAIRR And are moving to the full NAIRR



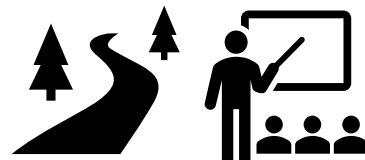
**Establish strong govt-  
industry partnership**

*In-kind contributions of  
most advanced resources*



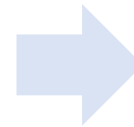
**Integrate & deliver  
contributed resources**

*Establish single access  
point for US researchers.*



**Expand education & AI  
resource training pathways**

*Launch NAIRR  
Classroom, extended  
reach, build community*



**Lay foundations for  
scalable NAIRR operations**

*Assess gaps, build out  
operations and data  
infrastructure*

**Results**

**14** agencies  
**28** industry and non-profit  
partners

**620+** projects  
**50** states + DC and PR  
**61** NAIRR Classrooms

Integrated support & training  
programs w/ **public & private**  
partners

**10** inaugural NAIRR datasets,  
**NAIRR Operations Center**  
solicitation released



# NAIRR Operations Center Solicitation Released



NSF News

## **NSF announces funding to establish the National AI Research Resource Operations Center**

September 3, 2025

- \$35M 5 year award
- Foundational activities
  - Organizational leadership
  - Building NAIRR Capabilities and Community
  - Interfacing with NAIRR Pilot Teams
- Potential to grow scope with strong performance and available funding
- Opportunity open to IHE, non-profits & FFRDCs and private-sector companies after discussion with program officer

- <https://www.nsf.gov/events/nsf-nairr-oc-solicitation-webinar/2025-09-23>
- <https://www.nsf.gov/funding/opportunities/nairr-oc-foundations-operating-national-artificial-intelligence/nsf25-546/solicitation>

LOI: Dec. 15<sup>th</sup>  
Deadline: Feb 4<sup>th</sup>

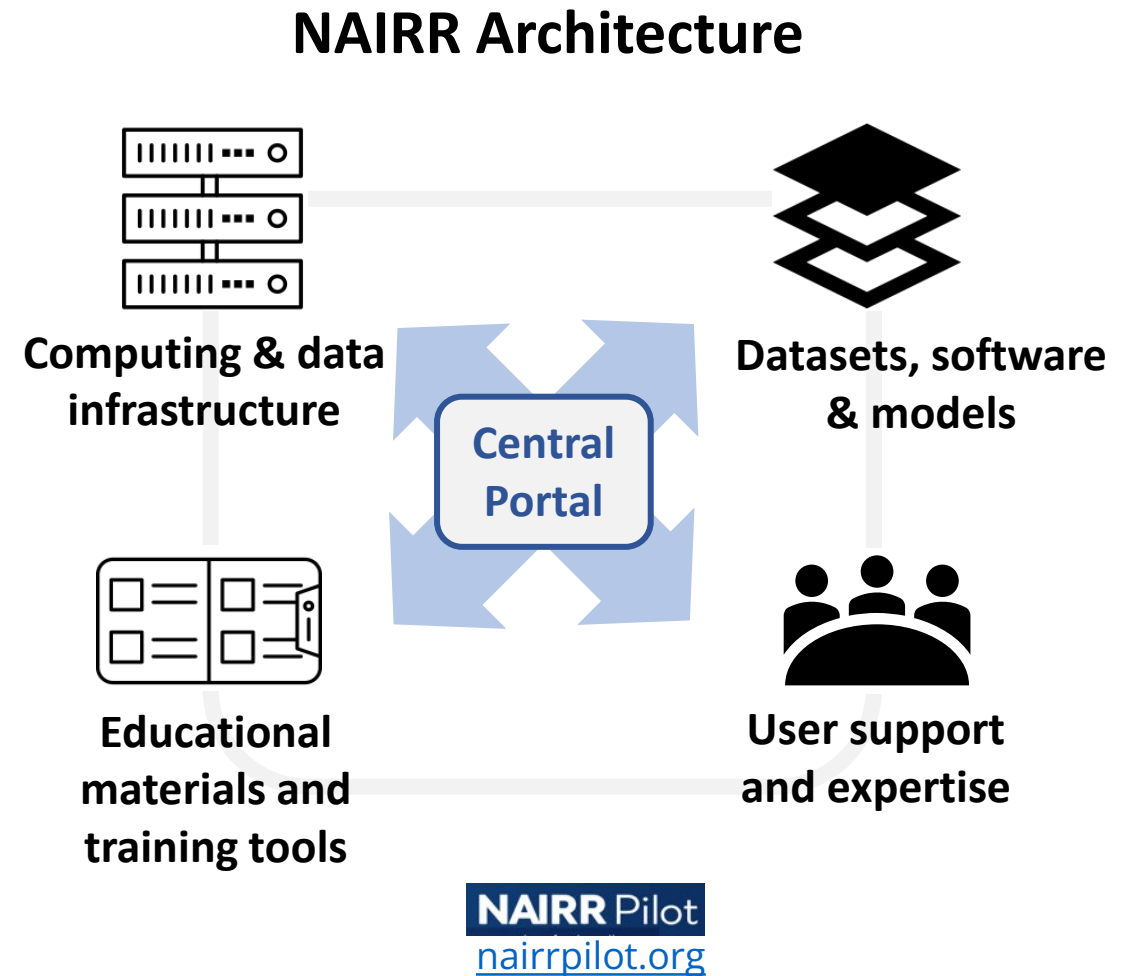
# National AI Research Resource (NAIRR) – The infrastructure to drive US AI innovation, discovery, and national competitiveness

**The challenge:** To sustain US global AI leadership and unlock AI opportunity across society we need:

- A skilled AI workforce; and
- To continue driving fundamental innovations

**The opportunity:** Build a competitive AI ecosystem by enabling all researchers and educators across the country to:

- Drive national and regional AI innovation across sectors to spark new solutions, products, businesses and jobs; and
- Train the AI workforce of the future





# NAIRR Pilot



New Opportunity

## DEEP PARTNERSHIPS

Request access to deeper collaborations directly with select partner resources.

Apply Now

New Opportunity

## START-UP PROJECTS RESOURCES

Request access to AI resources for start-up projects.

Apply Now

Requires Application

## RESEARCH RESOURCES

Access high-performance computing platforms tailored for AI research.

Apply Now

Requires Application

## EDUCATIONAL RESOURCES

Request access to educational platforms (such as computational notebooks).

Apply Now

Freely Accessible

## DATA, MODELS, AND MORE

Browse curated datasets, pre-trained models, and additional tools for training and testing your AI systems.

View Resources

## BECOME A VOLUNTEER REVIEWER

The NAIRR Pilot relies on engaged volunteers to power the proposals review. Please apply if you're interested in contributing to this critical process.

Apply Now

# NAIRR Secure: demonstrations to probe use of privacy/security-preserving infrastructure and high-quality AI-ready controlled-access data assets

NAIRR Secure Working group led by: DOE and NIH



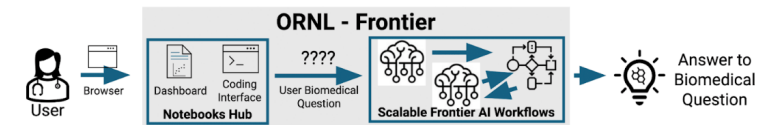
## Synthetic Data Generation with Large Real-World Data

Lisa Mirel (NSF/NCSES), May Aydin (NSF/NCSES), Ken Gersing (NIH/NCATS), Sam Michaels (NIH/NCATS)



## Democratizing AI for cancer with privacy preserving synthetic data generation for cancer case identification

Leads: Heidi Hanson, John Gounley, Patrycja Krawczuk, Adam Spannaus, Christopher Stanley, Jiayi Wang, Edmon Begoli



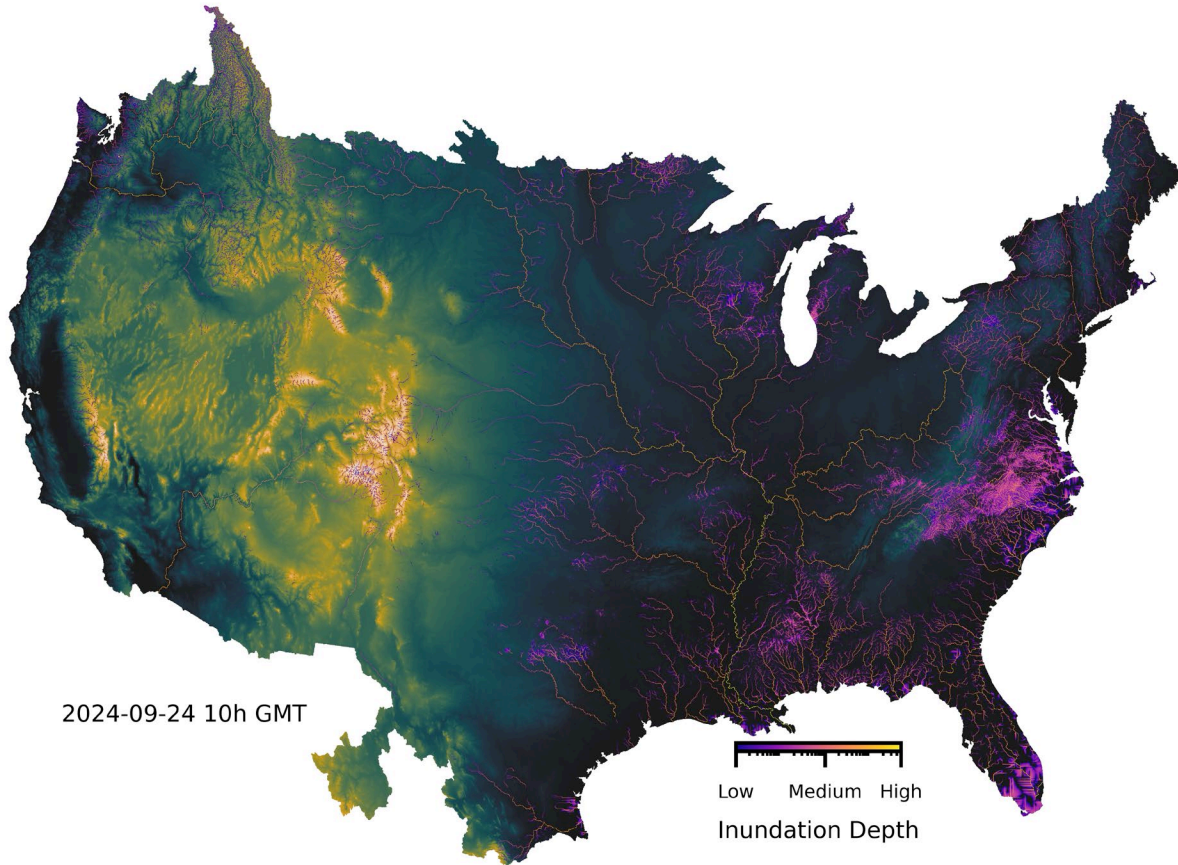
## Althena: Institutional LLM Assisted Biomedical Question Answering

Leads: Sam Michael (NCATS) & Verónica Melesse Vergara (ORNL)



# National Hydrology AI Digital Twin Pilot

PI: Laura Condon (University of Arizona) Co-PI: Reed Maxwell (Princeton University)



***Example output from the hydrology digital twin showing surface water depth over the US***



## Project Goals and Significance

- Create the first digital twin of the complete terrestrial hydrologic cycle for the US.
- Generate physically accurate national watershed conditions (both surface and subsurface) in real time.

## Specific Accomplishments and Highlights

- Built a novel hybrid ML emulator model that combines physics and machine learning to accelerate simulations while ensuring accuracy, stability, and mass conservation.
- Built ML-based downscaling workflows to create high resolution (30-100m) national maps of surface water and groundwater.
- Piloted a workflow for completing near real time simulations.

## Importance of NAIRR Pilot Resources

- We use NAIRR computing (e.g. Anvil) to generate a 'library' of physics-based simulations which are used to train our ML emulators and to initiate our downscaling workflows.
- NAIRR resources enable the evolution of our national hydrologic model from a research tool to an operational platform.

# AI-Driven Decision Support in Battlefield Medicine



DARPA: HR00112420329

Elenberg, K. Carnegie Mellon University. NAIRR240073

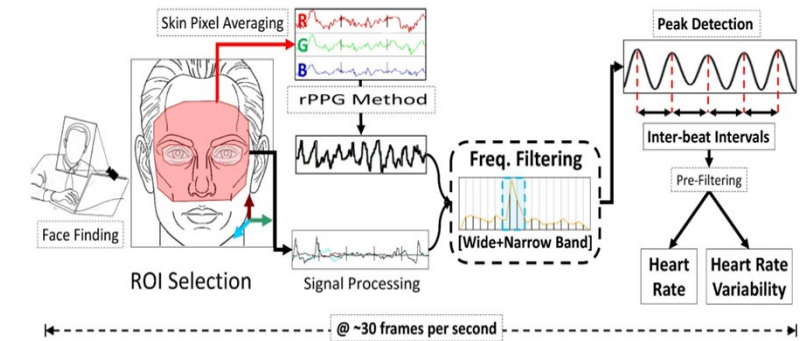
## Research Challenge

- Autonomous triage requires breakthrough innovations to noninvasively identify and classify human injuries in the field, with no physical contact.
- Building effective command and control systems that can support decision making and coordination and information management.

## Progress Results

- AI-Driven Decision Support in Battlefield Medicine
- On PSC Bridges-2, trained real-time heart rate estimation algorithms using 2/3 of allocated compute
- Leveraged multimodal inputs and demonstrated signal resilience under occlusion, low-light, and motion
- Requested increased compute and storage to support expanded triage data sets

**Resource:** Bridges-2 at Pittsburgh Supercomputing Center



Schematic overview of rPPG pipeline. (Gudi, Bittner, & van Gemert, 2020)

Real-Time Multimodal Heart Rate Estimation  
Thermal + RGB + RADAR fusion



Trained and validated multiple rPPG signal models under realistic, noisy, and dynamic field conditions (e.g., occlusion, motion, light variation).



# NAIRR Support for AI for US Agricultural Resilience



Ganapathysubramanian, B. Iowa State University

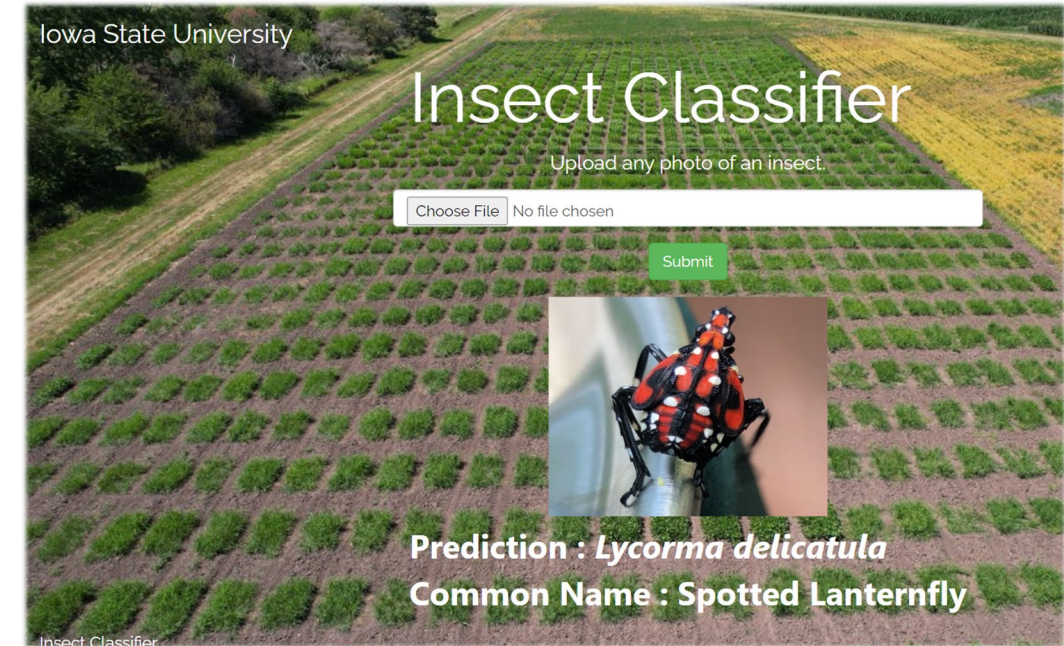
## Research Challenge

- Create accurate AI tools for the classification of agriculturally relevant insects, weeds and diseases and advance the science of decision support for US agricultural growers and breeders.
- Impacts include reduced chemical usage, reduced impact on beneficial species, increased profitability.

## Progress Results

- Integrated insect classification tool with LLMs for decision support, e.g. determining whether a species is an agricultural pest or not with stated uncertainty
- Tested against expert assessments to check accuracy
- Developed capability to accurately count imaged species, key to decision support and taking an action, e.g. Localized spraying.

Resource: Frontera at UT Austin and NVIDIA DGX Cloud



Lygus Nymph



Lygus Adult



Spotted Lantern Fly Nymph



Source:  
<https://www.nps.gov/vaf/o/learn/nature/lanternfly>

Spotted Lantern Fly Adult



Source:  
[https://en.wikipedia.org/wiki/Spotted\\_lanternfly](https://en.wikipedia.org/wiki/Spotted_lanternfly)

# Generative Models of Neuroimages for Personalized Assessment of Risk for Alzheimer's Disease

Irimia, A. University of Southern California. NAIRR240132

## Research Challenge

- Develop generative AI models to help forecast how an individual's brain is likely to age, and to predict the onset of cognitive impairment and dementia

## Progress Results

- Currently creating models that can be used to map myelin (a fatty substance which forms sheaths around neurons, which degrades in patients with Alzheimer's disease and related dementias [ADRD])
- The maps will be able to predict an individual's ADRD risk using a T1-weighted MRI, ultimately saving time and money while simultaneously assisting doctors on the effectiveness of patient treatments

**NAIRR Pilot Resources:** TACC Vista (NVIDIA GH100 Grace Hopper Superchip)



Stock MRI Image.



# Audio Deep Fake Detection for Forensics and Security

Duan, Z. University of Rochester. NAIRR240152

## Research Challenge

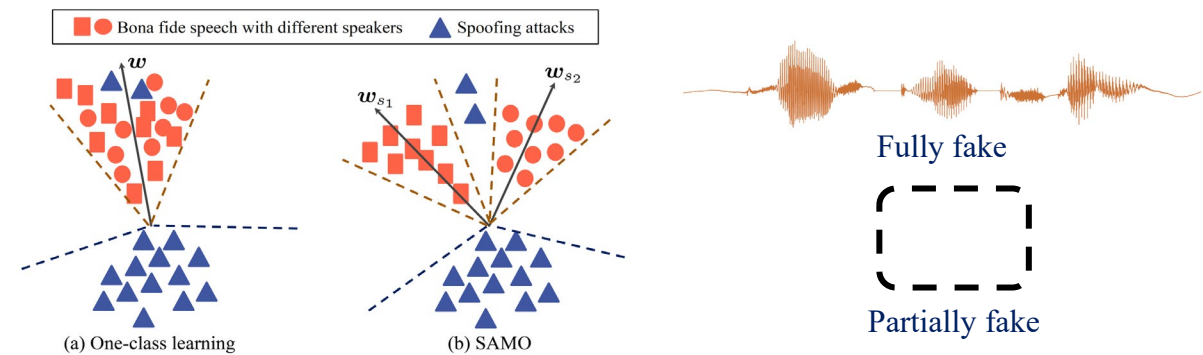
- Improve the generalization ability of audio-visual deepfake detection under various scenarios

## Progress Results

- Proposed a multi-stream Audio-Visual Deepfake Detection (AVDD) system based on one-class learning
- Improved our Speech Attractor Multi-center One-class (SAMO) learning algorithm for deepfake detection
- Identified a novel partial deepfake detection scenario accompanied by a newly curated dataset PartialEdit

**Resources:** Delta system at U of Illinois Urbana-Champaign

(a) Proposed Audio-Visual Deepfake Detection (AVDD) Framework with one-class learning



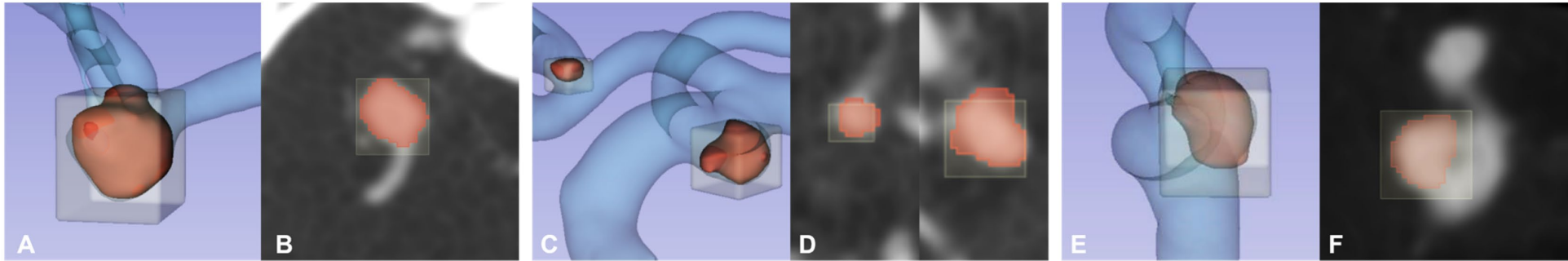
(b) Algorithm improvement for Speech Attractor Multi-center One-class (SAMO) learning

(c) New scenario: Partial Deepfake

Kyungbok Lee, You Zhang, and Zhiyao Duan, "A multi-stream fusion approach with one-class learning for audio-visual deepfake detection," in *Proc. IEEE International Workshop on Multimedia Signal Processing (MMSP)*, 2024.

# Detection of Intracranial Aneurysms

Jiang, H. Northeastern University. NAIRR240236



3D view and corresponding CTA images. Red: ground-truth aneurysm; Yellow: algorithm output; Blue: artery segmentation. Top row (all TP): Right MCA aneurysm (A, B), anterior communicating artery aneurysm (smaller) and left posterior communicating artery aneurysm (larger) (C,D), left ICA aneurysm (E, F).

## Research Challenge

- Manual detection of intracranial aneurysms in computed tomography (CT) scans is a complex, time-consuming task even for expert clinicians. Automation is also challenging especially because of their small size (compared to scans) and limited labeled data for training.

## Progress Results

- Train a Transformer model to use large-scale unlabeled data. Compared with SOTA aneurysm detection models, our approach gains +4-8% absolute Sensitivity at a false positive rate of 0.5.

NAIRR Pilot Resource: Cloudbank and Microsoft Azure

Award: NIH R01 1R01LM013891-01A1



# NAIRR Classroom – Bringing Resources and Training Opportunities to Educators and Students

- Goal: pilot training the next generation workforce in AI technologies and resources
- Supports **40** classroom educators and **~1500** students across the country
- Supporting 7 conferences coordinated by CRA, bringing together educators enabling AI in classrooms
  - Target communities for conferences include emerging research, primarily undergraduate serving, community colleges and HBCUs



Bernadette Boscoe from Southern Oregon University and Nicholas Rahimi from University of Southern Mississippi show casing their NAIRR Classroom projects at the NSF Congressional AI Education Showcase

# NAIRR Classroom: Building AI-enabled Data Visualization Interfaces

PI: Bernie Boscoe, NAIRR240359  
Southern Oregon University

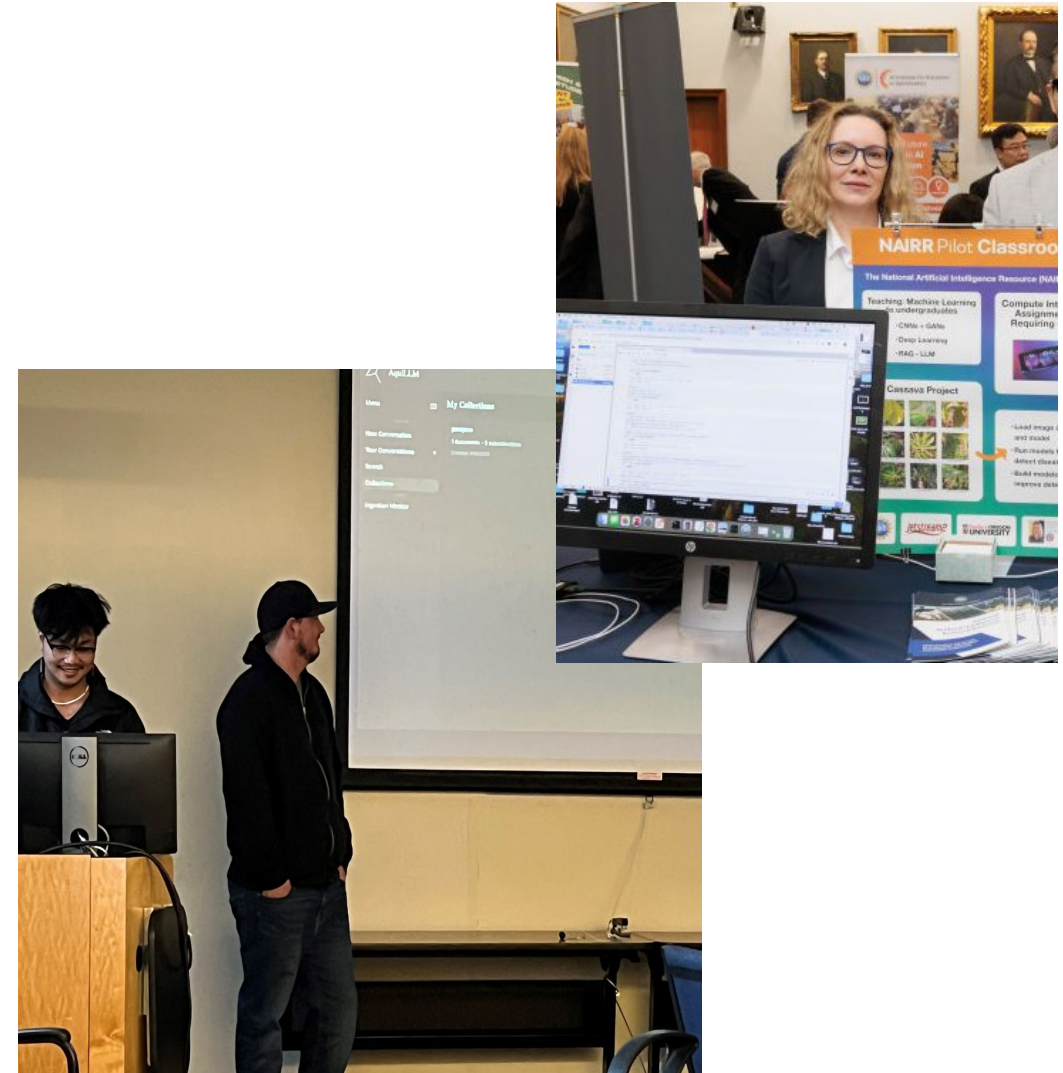
## Course overview/use of resources

- Expand a machine learning course to scale up to larger computational resources, using Jetstream2 as an educational platform that provides access to GPUs, Jupyter notebooks, and components for student submissions, feedback, and evaluation

## Highlights/Impact

- Connecting students with cutting-edge AI-enabled tools (machine-learning, RAG, LLM) and supercomputing resources.
- Research-driven collaboration through partnership with SOU environmental science for field use (Karen Mager), UCLA astrophysics Data Lab (Tuan Do), and Cornell (Amy Cheattle)

NAIRR Pilot Resource: Indiana Jetstream2 GPU





# Upcoming Solicitations



# Upcoming solicitation deadlines

- Cybertraining, Deadline Jan. 15, 2026
- Cybersecurity Innovation for Cyberinfrastructure (CICI), Deadline Jan. 26, 2026
- Findable Accessible Interoperable Reusable Open Science (FAIROS), Deadline Apr. 8, 2026
- Integrated Data Systems and Services, Deadline July 28, 2026



# Training-based Workforce Development for Advanced Cyberinfrastructure

[View guidelines](#)

[NSF 23-520](#)

**Contributors** who develop  
new capabilities

**Users** who are Researchers and  
Educators who exploit new  
capabilities

- Prepare, nurture, and grow the national scientific *research* workforce for *creating and utilizing* advanced cyberinfrastructure
- Deadline third Thursday in January annually





# Cybersecurity Innovation for CyberInfrastructure (CICI)

## Mission:

support trustworthy scientific  
discovery and innovation by  
enhancing the  
security and privacy of scientific  
cyberinfrastructure.



***CICI cybersecurity innovations should be tailored for  
scientific cyberinfrastructure and enable trustworthy  
reproducible science***

## ***Four Program Tracks***



Usable and Collaborative Security for Science (UCSS)



Reference Scientific Security Datasets (RSSD)



Transition to Cyberinfrastructure Resilience (TCR)



Integrity, Provenance, and Authenticity for Artificial Intelligence Ready Data (IPAAI)

Program Solicitation NSF 25-531  
Next Deadline: January 21, 2026  
Third Wednesday in January, Annually Thereafter

# Findable Accessible Interoperable Reusable Open Science (FAIROS) Program Solicitation (NSF 25-533)

Supports sustainable open science and data management by advancing research, education and cyberinfrastructure while encouraging collaboration and reducing barriers to data sharing.

- Advance sustainable multi-disciplinary research data management (RDM) and open science ecosystem.
- Advance FAIR data portals, metadata standards, research data commons, and RDM in advancing open science.
- Lower barriers to accessing, managing, sharing, and storing data within and across multiple disciplinary domains, irrespective of data size.

Includes two research tracks of focus: 1. *Disciplinary Improvements* or 2. *Cross-Cutting Improvements*

**Supported by multiple NSF Directorates**

Award size: up to \$600k for up to 3 years

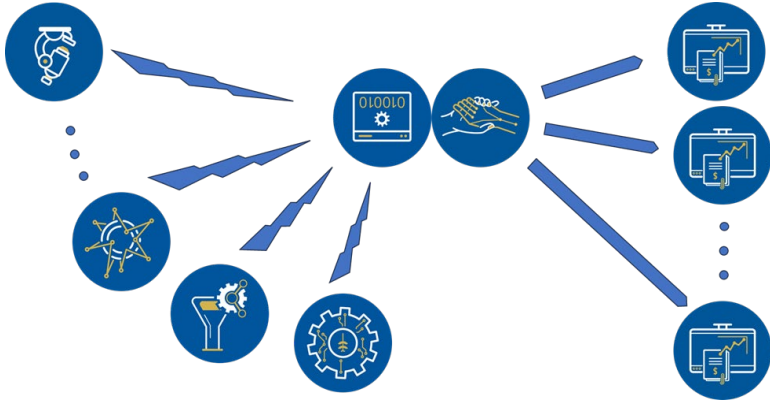
Deadline: April 8, 2026, Second Wednesday in April, Annually Thereafter

<https://www.nsf.gov/funding/opportunities/fairos-findable-accessible-interoperable-reusable-open-science>



# NSF Integrated Data Systems & Services (IDSS)

Support for operations-level national scale systems and services that advance and facilitate open, data intensive, and artificial intelligence-driven science and engineering research, innovation, and education.



- Connect data sources with AI/analytic environments and data-intensive workflows
- Manage the data lifecycle at a national scale
- Does not support permanent long-term storage, curation of research data, or projects that focus on a single science domain or application

**Category I:** National-scale systems and services (\$10M to \$30M for up to 5 years)

**Category II:** Transition of regional/pilot to national-scale (\$9M for up to 3 years)

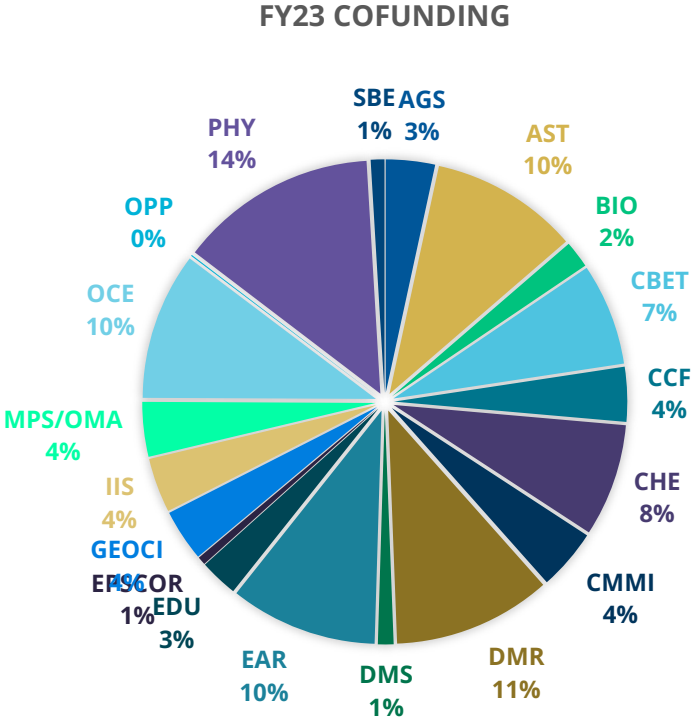
**Category III:** Planning grants (\$500,000 for up to 2 years).

**Deadline July 28, 2026**



# Cyberinfrastructure for Sustained Scientific Innovation (CSSI)

- Development and deployment of robust, reliable and sustainable **data and software** cyberinfrastructure
- Innovative capabilities towards sustained scientific innovation and discovery in **one or more areas of science and engineering**.
- Provides a **cross-directorate** opportunity to advance common approaches to sustain and innovate research cyberinfrastructures
- Deadline December 1, 2025



Project Class	Description
Elements	Small groups. (Awards <= \$600K, up to 3 years)
Framework Implementations	Larger, interdisciplinary teams, resulting in a sustainable community framework. (Awards between \$600K - \$5 Million, between 3-5 years)
Transition to Sustainability	A well-defined sustainability plan for long-term impact. (Awards <= \$1M, <2 years)



# Computer and Information Science and Engineering : Future Computing Research (Future CoRe)

View guidelines

NSF 25-543

- Single class of projects with a maximum budget of up to \$1M and up to 4 years
- Target dates only – no deadline
- A broad set of areas
- More information via email
- See the solicitation for area details and email addresses:  
Google “nsf cise future core” or “nsf 25-543”



# Questions and Discussion

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