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RESEARCH
SUMMIT:
ARTIFICIAL INTELLIGENCE
Research
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THE ARTIFICIAL INTELLIGENCE FUNDING LANDSCAPE

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External Funding Specialist

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UtahStateUniversity

RESEARCH SUMMIT

Overview

- Federal Priorities
- Federal Agency Funding Landscapes
- Requests for Information
- Notices of Intent to Issue
- Strategies to track fast-paced fields

Federal Priorities

- Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence (2023)

"In the end, AI reflects the principles of the people who build it, the people who use it, and the data upon which it is built."

NAIRR Pilot National Artificial Intelligence Research Resource Pilot

About Allocations Call Available Resources NAIRR Secure

The National Artificial Intelligence Research Resource (NAIRR) Pilot

The NAIRR Pilot aims to connect U.S. researchers and educators to computational, data, and training resources needed to advance AI research and research that employs AI. Federal agencies are collaborating with government-supported and non-governmental partners to implement the Pilot as a preparatory step toward an eventual full NAIRR implementation.

Spur innovation

Increase diversity of talent

Improve capacity

Advance trustworthy AI

How to get involved with the NAIRR Pilot

SURVEY OF US RESEARCHERS, EDUCATORS, AND STUDENTS

We are eager to learn your use cases for the NAIRR Pilot, your challenges using AI resources, and other perspectives. The survey is open through March 8, 2024.

Fill out survey

APPLY FOR COMPUTING

An initial set of NAIRR Pilot advanced computing resources, such as GPUs, is available to researchers and educators. The call is open through March 1, 2024.

Apply for computing

PILOT RESOURCES

Partners are contributing many kinds of resources to the pilot, such as pre-trained models, AI-ready datasets, and relevant platforms.

View Pilot resources

FEDERAL AGENCY FUNDING LANDSCAPES

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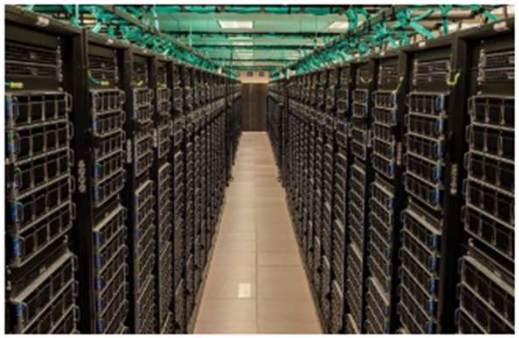
National Science Foundation

Innovation in AI methods

Application of AI techniques and tools



Democratizing AI research resources

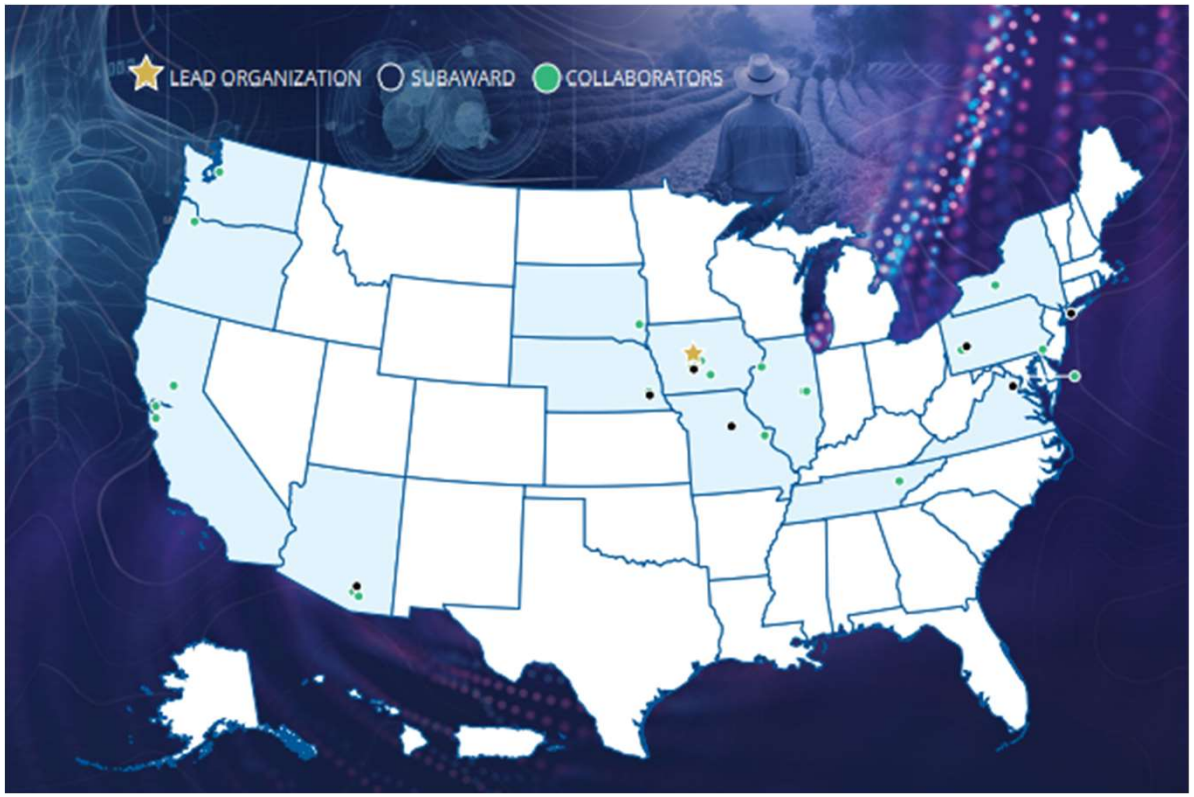
Trustworthy and ethical AI

Education and workforce development

Partnerships to accelerate progress

National
Science
Foundation
NATIONAL ARTIFICIAL INTELLIGENCE
RESEARCH INSTITUTES
Accelerating Research, Transforming Society,
Growing the American Workforce

AI Institute for Resilient Agriculture



SUBAWARD

- Carnegie Mellon University
- George Mason University
- Iowa Soybean Association
- New York University
- University of Arizona
- University of Missouri
- University of Nebraska-Lincoln

COLLABORATORS

- Agriculture Genome to Phenome Initiative
- AI Institute: Artificial Intelligence for Future Agricultural Resilience, Management, and Sustainability (AIFARMS)
- AI Institute for Next Generation Food Systems
- Bayer
- Big Data in a Box
- BioConnect Iowa
- Bloomfield Robotics
- Cornell AgriTech
- Corteva Agriscience
- CSIRO, Australia
- CyVerse
- Dryland Genetics
- EarthSense, Inc.
- EnGenious Ag
- ETALYC Inc.
- Federal Statistical Research Data Center (FSRDC) at Iowa State University
- Genomes to Fields Initiative
- Grow Pittsburgh
- International Plant Phenotyping Network
- Iowa Corn Growers Association
- Iowa Economic Development Authority
- Iowa Fruit & Vegetable Growers Association
- Iowa Soybean Association
- John Deere
- Microsoft
- MidWest Big Data Hub
- Mineral Google - X, The Moonshot Factory
- North American Plant Phenotyping Network (NAPPN)
- Oak Ridge National Laboratory
- Omni Analytics Group
- Practical Farmers of Iowa
- Raven Applied Technology
- RocketML, Inc.
- The Data and Software Carpentries
- The University of Tokyo
- University of Arizona TRIPODS
- University of Nebraska–Lincon Institute of Agriculture and Natural Resources Center for Resilience in Agricultural Working Landscapes
- USDA, Agricultural Research Service
- Vermeer Corporation

Funding Opportunities at NSF

- Smart and Connected Communities (S&CC)
- Ethical & Responsible Research (ER2)
- Collaborations in AI and Geosciences (CAIG)
- Smart Health and Biomedical Research in the Era of AI and Advanced Data Science
- Accelerating Computing-Enabled Scientific Discovery
- Expeditions in Computing

….. And many more listed on the AI summit webpage

NIH
National Institutes of Health
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DATA
ETHICS
PEOPLE

Biomedical &
Behavioral
Science
BRIDGE2AI
Artificial
Intelligence
Research
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Funding Opportunities at NIH

- NOSI: High-Priority Interest to Enhance Data Science Research Training in Addiction
- NOSI: Harnessing Big Data to Halt HIV
- NOSI: Validation of Digital Health and AI/ML tools for improved assessment in biomedical and behavioral research
- Multi-Scale Models Bridging Levels of Analysis in Aging and Alzheimer's Disease (AD) and AD-Related Dementias (ADRD)

*For more opportunities: see the curated search criteria on the summit webpage under NIH

NIST
National Institute of Standards and Technology
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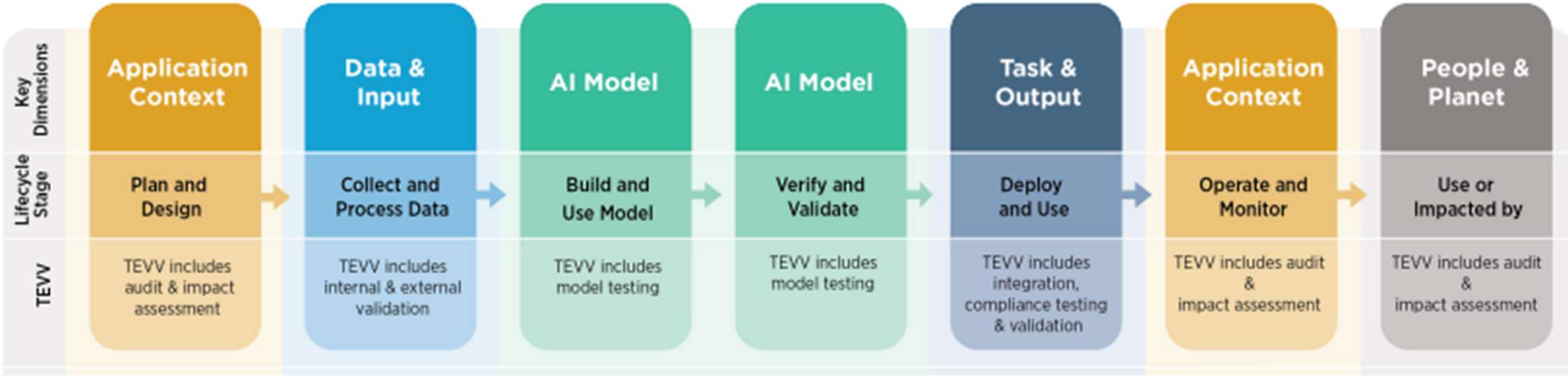
About NIST

- Home of the Artificial Intelligence Safety Institute Consortium
- Trustworthy & Responsible AI Resource Center
  - AI Risk Management Framework


Key Dimensions
Application Context
Data & Input
AI Model
AI Model
Task & Output
Application Context
People & Planet
Lifecycle Stage
Plan and Design
Collect and Process Data
Build and Use Model
Verify and Validate
Deploy and Use
Operate and Monitor
Use or Impacted by
TEVV
TEVV includes audit & impact assessment
TEVV includes internal & external validation
TEVV includes model testing
TEVV includes model testing
TEVV includes integration, compliance testing & validation
TEVV includes audit & impact assessment
TEVV includes audit & impact assessment

Funding Opportunities at NIST

- Measurement Science and Engineering (MSE) Research Grant Program

Other Federal Agencies

- U.S. Department of Defense
- Department of Energy
- U.S. Department of Agriculture
- National Oceanic and Atmospheric Administration
- National Endowment for the Humanities

REQUESTS FOR INFORMATION

Requests for Information

- Input on published strategic plan for Smart Cities Program (NIST)
- Inviting comments on the NIH's strategic plan for data science (NIH)
- RFI to facilitate cancer systems immunology research (NIH)

NOTICES OF INTENT TO ISSUE

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Notices of Intent to Issue

- Epilepsy Research Program (DoD)
- Joint Warfighter Medical Research Program (DoD)

Strategies to Keep up with Fast-Paced Fields

- Create a saved search in a search engine with alerts
- Block weekly time in your calendar to read latest articles
- Attend the main conferences in your field
- Review conference proceedings
- Launch a journal club
- Serve on grant review panels

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