

Department of Energy Announces \$87 Million for AI investments

Announcement Number: N/A

List Posted: MM/DD/YYYY

Selection for award negotiations is not a commitment by DOE to issue an award or provide funding.

Principal Investigator	Title	Institution	City	State	ZIP Code
Sankaranarayanan, Subramanian	An "AlphaFold for Microelectronics": Decoding Defect-Mediated Mechanisms Governing Stability and Function	Argonne National Laboratory	Lemont	IL	60439-4803
Lumsden, Mark	MAIQMag: Multimodal AI for 2D Quantum Magnets	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Sokaras, Dimosthenis	Integrated Scientific Agentic AI for Catalysis (ISAAC)	SLAC National Accelerator Laboratory	Stanford	CA	94305-2004
Ramanathan, Arvind	IDEA: Intelligent Design Assistant for Enzyme Discovery and Biosynthetic Pathway Optimization	Argonne National Laboratory	Lemont	IL	60439-4803
Gu, Lianhong	A Generative Pretrained Transformer for Genomic Photosynthesis to Support Abundant Bioenergy Production	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Dehal, Paramvir	Artificial Intelligence Frameworks for Biological Science	Lawrence Berkeley National Laboratory	Berkeley	CA	94720-8099
Bardhan, Jay	Accelerating Biological Discovery by Enabling Genomic Resources in Deep Phenotyping on Automated Platforms	Pacific Northwest National Laboratory	Richland	WA	99352-1793
Webb, Samuel M.	AI-Driven Multimodal Imaging for Predicting Stress Response in Plants: Linking Genotype to Phenotype across Scales	SLAC National Accelerator Laboratory	Stanford	CA	94305-2004
Liu, Qun	Rare Earth Self-driving Cellular Uptake Engineering (RESCUE)	Brookhaven National Laboratory	Upton	NY	11973-5000
Adams, Paul	LAMBDA: A Lakehouse-enabled AI-ready Multi-modal Bioimaging Data Architecture	Lawrence Berkeley National Laboratory	Berkeley	CA	94720-8099
Romano, Paul	AI-Assisted Multiscale Modeling of Radiation Damage in Fusion Materials	Argonne National Laboratory	Lemont	IL	60439-4803
Tang, Xianzhu	A White Paper from LANL on American Science Cloud Initiative in Accelerating Fusion Energy Development with Generative and Agentic Artificial Intelligence	Los Alamos National Laboratory	Los Alamos	NM	87545-0001
Churchill, Michael	NSTX-U Digital Twins: Integrating AI, HPC, and Experimental Measurement for Accelerated Facility Operations	Princeton Plasma Physics Laboratory	Princeton	NJ	08543-0451
Stabler, Gary	MPEX AI Digital Twins	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Mariscal, Derek	Digital Twins and Data Integration for Accelerated Design and Operation of IFE Power Plant Systems	Lawrence Livermore National Laboratory	Livermore	CA	94551-0808
Heitmann, Katrin	HEP AmSC IDA Pilot: Knowledge Extraction	Argonne National Laboratory	Lemont	IL	60439-4803
Ferraro, Simone	HEP AmSC IDA Pilot: AI Universe	Lawrence Berkeley National Laboratory	Berkeley	CA	94720-8099
Cavaliere, Viviana	Hunting for TREASURE in HEP collider data: Tokenized Representations for Energy-frontier AI Searches via Understanding and Reasoning	Brookhaven National Laboratory	Upton	NY	11973-5000
Schram, Malachi	Developing AI-Ready Data Framework for DOE NP Particle Accelerators	Thomas Jefferson National Accelerator Facility	Newport News	VA	23606-4468
Dunlop, James C	Preparing QCD Data for Foundation Model	Brookhaven National Laboratory	Upton	NY	11973-5000
Cromaz, Mario	AI/ML-Ready Data Labeling for Low Energy Nuclear Physics	Lawrence Berkeley National Laboratory	Berkeley	CA	94720-8099

Adams, Paul	OPAL: Orchestrated Platform for Autonomous Laboratories to Accelerate AI-Driven BioDesign	Lawrence Berkeley National Laboratory	Berkeley	CA	94720-8099
Stevens, Rick	OPAL: Orchestrated Platform for Autonomous Laboratories to Accelerate AI-Driven BioDesign	Argonne National Laboratory	Lemont	IL	60439-4803
Weston, David	OPAL: Orchestrated Platform for Autonomous Laboratories to Accelerate AI-Driven BioDesign	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Mans, Douglas	OPAL: Orchestrated Platform for Autonomous Laboratories to Accelerate AI-Driven BioDesign	Pacific Northwest National Laboratory	Richland	WA	99354-1793
Vasisht, Soumya	AETHER - Autonomous Experimentation Toolbox for High-Throughput Efficient Research	Pacific Northwest National Laboratory	Richland	WA	99352-1793
Yoo, Shinjae	Generalizing Scientific Acceleration with Humanoid Robots as Embodied AI	Brookhaven National Laboratory	Upton	NY	11973-5000
DeSousa, Kimberly	AI Agents for Automated Phenotyping Platforms	Pacific Northwest National Laboratory	Richland	WA	99352-1793
Ferreira da Silva, Rafael	A Testbed for Multi-Agent Autonomous Science: From Lab Bench to Supercomputer	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Ferrier, Nicola	RoSA: Robot Scientific Assistants for Accelerating Experimental Workflows	Argonne National Laboratory	Lemont	IL	60439-4803
Garcia Martin, Hector	A prototype for automated troubleshooting in a biomanufacturing self-driving lab	Lawrence Berkeley National Laboratory	Berkeley	CA	94720-8099