

Energy Department Announces New Genesis Mission Awards to Accelerate Scientific Capability

Announcement Number: DE-FOA-0003612

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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
Looby, Thomas	Accelerating the path to commercial fusion energy via an AI-enabled digital twin platform for SPARC (Phase II)	Commonwealth Fusion Systems	Cambridge	MA	02139
Toor, Navtej	Decoding the RNA Struuturome to Secure AI Advantage for the Bioeconomy (Phase II)	The Regents of the University of California - UCSD	La Jolla	CA	92093-0934
Detmold, William	Lattice QCD at the Intelligence Frontier (Phase II)	Massachusetts Institute of Technology	Cambridge	MA	02139-4307
Abdolhosseini Qomi, Mohammad	MAESTRO: Multi-agent AI Expert for Subsurface Reasoning and Optimization (Phase II)	Regents of the University of California, Irvine	Irvine	CA	92697-7600
Su, Xiao	AXIS: AI-extended Interfacial Separations: A Multiscale Framework for Redox-Active Ligand Design (Phase II)	Board of Trustees of the University of Illinois	Champaign	IL	61820-7406
Baker, David	Overcoming barriers in computational enzyme design through improved sequence-structure ensemble modeling (Phase II)	University of Washington	Seattle	WA	98195-9472
Tran, Nhan	AXESS: Accelerating eXtreme Environment Specs-to-Silicon (Phase II)	Fermi National Accelerator Laboratory (FNAL)	Batavia	IL	60510-5011
Vay, Jean-Luc	The Multi-Office Accelerator Team Core (MOAT-Core) Project (Phase II)	Lawrence Berkeley National Laboratory (LBNL)	Berkeley	CA	94720-8099
Lukin, Mikhail	Application-Aware Error Correction Codesign for Scientific Quantum Computing (ASQC) (Phase II)	President and Fellows of Harvard College	Cambridge	MA	02138-5369
Siegel, Andrew	AI4HPC: An Iterative Framework for AI-Assisted Scientific Software Development and Optimization (Phase II)	Argonne National Laboratory (ANL)	Lemont	IL	60439-4803
Cheng, Yongqiang	AI-empowered Design of Functional Quantum Magnets (Phase II)	Oak Ridge National Laboratory (ORNL)	Oak Ridge	TN	37831-6118
Paul, Ayan	Agentic Assistance for ARIS Operations at FRIB: Beam Tuning, Calibration, Monitoring, and Knowledge Harvesting (Phase II)	Northeastern University	Boston	MA	02115-5005
Apte, Sourabh	AI-Augmented Mechanistic Upscaling of Pore-Scale Inertial Dynamics for Predictive Subsurface Biogeochemical Transport (Phase I)	Oregon State University	Corvallis	OR	97331-2140
Brown, Kevin	WasteChemAI: Chemical Speciation and Partitioning AI Framework for DOE Waste Processing and Disposal Optimization (Phase I)	Vanderbilt University	Nashville	TN	37235-7749
Lu, Yao	AI-Guided Sparse Characterization of Quantum Sensing States and Entanglement Structures (Phase I)	Fermi National Accelerator Laboratory (FNAL)	Batavia	IL	60510-5011
Scheinker, Alexander	From Beam Loss to Beam Intelligence: Adaptive Generative AI for Autonomous Accelerator Facilities (Phase I)	Los Alamos National Laboratory (LANL)	Los Alamos	NM	87544-0600
Sokaras, Dimosthenis	Closed-Loop Autonomous Discovery of Mechanistic Activity-Selectivity-Stability Rules in Catalysis (Phase I)	SLAC National Accelerator Laboratory	Menlo Park	CA	94025-7015
Sun, Andy	Uncertainty Quantification for Grid Planning and Operations with Multi-Sector Feedback (Phase I)	Massachusetts Institute of Technology	Cambridge	MA	02139-4307