

Department of Energy Announces \$67 Million for Research on AI for Science

Announcement Number DE-FOA-0003264 Selection for award negotiations is not a commitment by DOE to issue an award or provide funding. List posted: 9.5.2024

Title	Principal Investigator	Institution	City	State	ZIP Code
ENGAGE: Energy-efficient Novel Algorithms and Architectures for Graph Learning	Adam, Gina	The George Washington University	Washington	DC	20052-0042
ENGAGE: (E)nergy-efficient (N)ovel Al(g)orithms and (A)rchitectures for (G)raph L(e)arning	Parsa, Maryam	George Mason University	Fairfax	VA	22030-4422
ENGAGE: (E)nergy-efficient (N)ovel Al(g)orithms and (A)rchitectures for (G)raph L(e)arningres	Potok, Thomas	Oak Ridge National Laboratory (ORNL)	Oak Ridge	TN	37831-6118
ENGAGE: (E)nergy-efficient (N)ovel Al(g)orithms and (A)rchitectures for (G)raph L(e)arning	Schuman, Catherine	The University of Tennessee	Knoxville	TN	37996-1529
FedNeMO: Physics-Informed and Energy-Aware Federated Learning of Neural Multi-Operator Learners as Scientific Foundation Models	Alumbaugh, David	Lawrence Berkeley National Laboratory (LBNL)	Berkeley	CA	94720-8099
FedNeMO: Physics-Informed and Energy-Aware Federated Learning of Neural Multi-Operator Learners as Scientific Foundation Models	Lin, Youzuo	University of North Carolina at Chapel Hill	Chapel Hill	NC	27599-1350
FedNeMO: Physics-Informed and Energy-Aware Federated Learning of Neural Multi-Operator Learners as Scientific Foundation Models	Shi, Yuanyuan	The Regents of the University of California - UCSD	La Jolla	CA	92093-0934

FedNeMO: Physics-Informed and Energy-Aware Federated Learning of Neural Multi-Operator Learners as Scientific Foundation Models	Sun, Xiaoming	Los Alamos National Laboratory (LANL)	Los Alamos	NM	87544-0600
FedNeMO: Physics-Informed and Energy-Aware Federated Learning of Neural Multi-Operator Learners as Scientific Foundation Models	Lu, Lu	Yale University	New Haven	CT	06520-8327
FedNeMO: Physics-Informed and Energy-Aware Federated Learning of Neural Multi-Operator Learners as Scientific Foundation Models	Zhang, Zecheng	Florida State University	Tallahassee	FL	32306-4166
DyGenAI: Dynamic Generative Artificial Intelligence for Prediction and Control of High-Dimensional Nonlinear Complex Systems	Bao, Feng	Florida State University	Tallahassee	FL	32306-4166
DyGenAI: Dynamic Generative Artificial Intelligence for Prediction and Control of High-Dimensional Nonlinear Complex Systems	Cao, Yanzhao	Auburn University	Auburn	AL	36832-5888
DyGenAI: Dynamic Generative Artificial Intelligence for Prediction and Control of High-Dimensional Nonlinear Complex Systems	Cyr, Eric	Sandia National Laboratories, New Mexico (SNL-NM)	Albuquerque	NM	87185-0100
DyGenAI: Dynamic Generative Artificial Intelligence for Prediction and Control of High-Dimensional Nonlinear Complex Systems	Du, Qiang	The Trustees of Columbia University in the City of New York (Morningside Campus)	New York	NY	10027-7922
DyGenAI: Dynamic Generative Artificial Intelligence for Prediction and Control of High-Dimensional Nonlinear Complex Systems	Ju, Lili	University of South Carolina	Columbia	SC	29208-0001

DyGenAI: Dynamic Generative Artificial Intelligence for Prediction and Control; of High-Dimensional Nonlinear Complex Systems	Zhang, Guannan	Oak Ridge National Laboratory (ORNL)	Oak Ridge	TN	37831-6118
SciGPT: Scalable Foundational Model for Scientific Machine Learning	Balaprakash, Prasanna	Oak Ridge National Laboratory (ORNL)	Oak Ridge	TN	37831-6118
SciGPT: Scalable Foundational Model for Scientific Machine Learning	Mahoney, Michael	Lawrence Berkeley National Laboratory (LBNL)	Berkeley	CA	94720-8099
SciGPT: Scalable Foundation Model for Scientific Machine Learning	Yang, Yaoqing	Trustees of Dartmouth College	Hanover	NH	03755-1421
Productive AI-Assisted HPC Software Ecosystem	Bhatele, Abhinav	University of Maryland	College Park	MD	20742-5141
Productive AI-Assisted HPC Software Ecosystem	Godoy, William	Oak Ridge National Laboratory (ORNL)	Oak Ridge	TN	37831-6118
Productive AI-Assisted HPC Software Ecosystem	GUHA, ARJUN	Northeastern University	Boston	MA	02115-5005
Productive AI-Assisted HPC Software Ecosystem	Menon, Harshitha	Lawrence Livermore National Laboratory (LLNL)	Livermore	CA	94551-0808
Tensor-Compressed Sustainable Pre-Training of Extreme-Scale Foundation Models	Cappello, Franck	Argonne National Laboratory (ANL)	Lemont	IL	60439-4803
Tensor-Compressed Sustainable Pre-Training of Extreme-Scale Foundation Models	Zhang, Zheng	Regents of the University of California, Santa Barbara	Santa Barbara	CA	93106-2050
DS4MEAMS: Decision support for machine learning enabled autonomous multi-scale simulations	Cosmin, Petra	Lawrence Livermore National Laboratory (LLNL)	Livermore	CA	94551-0808
DS4MEAMS: Decision support for machine learning enabled autonomous multi-scale simulations	Jansen, Kenneth	The Regents of the University of Colorado d/b/a University of Colorado	Boulder	CO	80303-1058

DS4MEMS: Decision Support for Machine Learning Enabled Multi-fidelity Simulations	Mueller, Juliane	National Renewable Energy Laboratory (NREL)	Golden	CO	80401-3111
Theseus: A Computational Science Foundation Model	Eisner, Jason	The Johns Hopkins University	Baltimore	MD	21218-2686
Theseus: A Computational Science Foundation Model	Emami, Patrick	National Renewable Energy Laboratory (NREL)	Golden	CO	80401-3111
Theseus: A Computational Science Foundation Model	Horawalavithana, Yasanka Sameera	Pacific Northwest National Laboratory (PNNL)	Richland	WA	99352-1793
Theseus: A Computational Science Foundation Model	Pan, Shaowu	Rensselaer Polytechnic Institute	Troy	NY	12180-3522
Privacy-Preserving Federated Learning for Science: Building Sustainable and Trustworthy Foundation Models	Flynn, Thomas	Brookhaven National Laboratory (BNL)	Upton	NY	11973-5000
Privacy-Preserving Federated Learning for Science: Building Sustainable and Trustworthy Foundation Models	Kotevska, Olivera	Oak Ridge National Laboratory (ORNL)	Oak Ridge	TN	37831-6118
Privacy-Preserving Federated Learning for Science: Building Sustainable and Trustworthy Foundation Models	Kim, Kibaek	Argonne National Laboratory (ANL)	Lemont	IL	60439-4803
Privacy-Preserving Federated Learning for Science: Building Sustainable and Trustworthy Foundation Models	Ryu, Minseok	Arizona Board of Regents for Arizona State University	Tempe	AZ	85287-6011
Privacy-Preserving Federated Learning for Science: Building Sustainable and Trustworthy Foundation Models	Yousefian, Farzad	Rutgers, The State University of New Jersey	Piscataway	NJ	08854-3925
DURBAN: Enhancing Performance Portability In HPC Software with Artificial Intelligence	Franchetti, Franz	Carnegie Mellon University	Pittsburgh	PA	15213-3589
Durban: Enhancing Performance Portability in HPC Software with Artificial Intelligence	Williams, Samuel	Lawrence Berkeley National Laboratory (LBNL)	Berkeley	CA	94720-8099

Durban: Enhancing Performance Portability in HPC Software with Artificial Intelligence	Teranishi, Keita	Oak Ridge National Laboratory (ORNL)	Oak Ridge	TN	37831-6118
Flexible brain-inspired hybrid analog-spiking neuronal network computation in energy efficient neuromorphic hardware	Kirst, Christoph	The Regents of the University of California, San Francisco (UCSF)	San Francisco	CA	94143
Flexible brain-inspired hybrid analog-spiking neuronal network computation in energy-efficient neuromorphic hardware	Pedram, Massoud	University of Southern California	Los Angeles	CA	90089-4304
Flexible brain-inspired hybrid analog-spiking neuronal network computation in energy-efficient neuromorphic hardware	Vasudevan, Dilip	Lawrence Berkeley National Laboratory (LBNL)	Berkeley	CA	94720-8099