Department of Energy Announces $29 Million for Research on Machine Learning, Artificial Intelligence, and Data Resources For Fusion Energy Sciences

Annoucement Number: *DE-FOA-0002905 Machine Learning, Artificial Intelligence, and Data Resources for Fusion Energy Sciences* *List Posted:* *8/31/2023*

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

Principal Investigator	Title	Institution	City	State	9-digit zip code
Betti, Riccardo	Applications of Machine Learning and Data Science to predict, design and improve laser-fusion implosions for inertial fusion energy	University of Rochester	Rochester	NY	14611-3847
Sarkar, Soumyendu	Applications of Machine Learning and Data Science to predict, design and improve laser-fusion implosions for inertial fusion energy	Hewlett Packard Enterprise	Herndon	VA	20171-5856
De Pascuale, Sebastian	Enabling Tokamak Pulse Simulation by Machine Learning of Core-Pedestal-Boundary Physics	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Mesbah, Ali	Active learning-guided discovery and data-enabled active control of plasma synthesis of nanomaterials	The Regents of University of California - Berkeley	Berkeley	CA	94710-1749
Khrabry, Aleksandr	Active learning-guided discovery and data-enabled active control of plasma synthesis of nanomaterials	The Trustees of Princeton University	Princeton	NJ	08544-2020
Kaganovich, Igor	Active learning-guided discovery and data-enabled active control of plasma synthesis of nanomaterials	Princeton Plasma Physics Laboratory	Princeton	NJ	08544-2021
Rea, Cristina	Open and FAIR Fusion for Machine Learning Applications	Massachusetts Institute of Technology	Cambridge	MA	02139-4307
Diem, Stephanie	Open and FAIR Fusion for Machine Learning Applications	Board of Regents of the University of Wisconsin System, operating as University of Wisconsin-Madison	Madison	WI	53715-1218
Jelenak, Aleksandar	Open and FAIR Fusion for Machine Learning Applications	The HDF Group	Champaign	IL	61820-3871
Kostadinova, Evdokiya	Open and FAIR Fusion for Machine Learning Applications	Auburn University	Auburn	AL	36832-5888
Mordijck, Saskia	Open and FAIR Fusion for Machine Learning Applications	The College of William and Mary	Williamsburg	VA	23187-8795
Sammuli, Brian	A Fusion Machine Learning Data Science Platform to Support the Design and Safe Operation of a Fusion Pilot Plant	General Atomics	San Diego	CA	92121-1122
Foltin, Martin	A Fusion Machine Learning Data Science Platform to Support the Design and Safe Operation of a Fusion Pilot Plant	Hewlett Packard Enterprise	Milpitas	CA	95035-5115
Michoski, Craig	A Fusion Machine Learning Data Science Platform to Support the Design and Safe Operation of a Fusion Pilot Plant	Sapientai LLC	Austin	TX	78731-4298
Wuerthwein, Frank	A Fusion Machine Learning Data Science Platform to Support the Design and Safe Operation of a Fusion Pilot Plant	The Regents of the University of California - San Diego	La Jolla	CA	92093-0934
Tang, Xianzhu	DeepFusion Accelerator for Fusion Energy Sciences in Disruption Mitigation	Los Alamos National Laboratory	Los Alamos	NM	37831-6118
Bui, Tan	DeepFusion Accelerator for Fusion Energy Sciences in Disruption Mitigation	The University of Texas at Austin	Austin	TX	78759-5316
McDevitt, Christopher	DeepFusion Accelerator for Fusion Energy Sciences in Disruption Mitigation	University of Florida	Gainesville	FL	32611-5500
Maulik, Romit	DeepFusion Accelerator for Fusion Energy Sciences in Disruption Mitigation	The Pennsylvania State University	University Park	PA	16802-7000
Zhang, Xinghang	Accelerating discovery and diagnostics of plasma-wall interactions using machine learning	Purdue University	West Lafayette	IN	47906-1332