

Department of Energy Announces \$21 Million to Support Energy-Relevant Research in Underrepresented Regions

Announcement Number: DE-FOA-0002624

List Posted: 9/12/2022

Principal Investigator	Title	Institution	City	State	9-digit zip code
Comes, Ryan	In Situ Studies of Charge Transfer Phenomena in Complex Oxide Heterostructures	Auburn University	Auburn	AL	36832-5131
Xu, Kunning	Studying Magnetized High- Energy Density Plasma Interactions to Advance Plasma-Jet Magneto Inertial Fusion	University of Alabama in Huntsville	Huntsville	AL	35899-0001
Meng, Xiangbo	Robust, Clean, and Antioxidative Surface Reconstructions of Nickel-Rich Layered Cathodes via Atomic Layer Deposition of Novel Sulfide Coatings	University of Arkansas	Fayetteville	AR	72701-3124
Gaillard, Nicolas	Two-Dimensional Materials for Thin Film Manipulation in Solar Energy Conversion Devices	University of Hawaii	Honolulu	HI	96822-2234
Flatte, Michael	Quantum Transduction with Abundant Elements for Cleaner Energy	University of Iowa	Iowa City	IA	52242-1320
Cantley, Kurtis	Neuromorphic Systems for Power Grid Cyber-Resilience	Boise State University	Boise	ID	83725-0001
Jenkins, Courtney	Mechanistic and Kinetic Analysis of Polymer Deconstruction and Modification by Irradiation for Polymer Upcycling	Idaho State University	Pocatello	ID	83209-8046
Tapia Takaki, Daniel	Studying nuclear gluon dynamics using novel technologies with the ALICE experiment and at the Electron-Ion Collider	University of Kansas Center for Research, Inc.	Lawrence	KS	66045-7568
Kuroda, Daniel	Structure and Dynamics of Solvate Ionic Liquid Electrolytes: Experiments, Modeling and Applications in Energy Storage	Louisiana State University and A&M College	Baton Rouge	LA	70803-0001
Menon, Shyam	A small volume, property measurement-based, pre-screening approach for sustainable aviation fuels enabled by functional relationship development using multi-fidelity machine learning algorithms	Louisiana State University and A&M College	Baton Rouge	LA	70803-0001
Islam, Muhammad	JSU DOE EPSCoR: Porous, Lightweight, and Semiconducting Chalcogen as High Energy Density Electrode for Lithium-ion and Sodium-ion Batteries	Jackson State University	Jackson	MS	39217-0002
Das, Avimanyu	Development of a low carbon technology for the recovery of critical metals from waste metallurgical slags with waste energy recovery	Montana Technological University	Butte	MT	59701-8932
Ware, Andrew	Magnetohydrodynamic optimization of stellarator fusion energy systems	University of Montana	Missoula	MT	59812
Eun, Jongwan	Building Partnership with Sandia National Laboratories in Development of Novel Engineered Barrier Materials for Geological Nuclear Waste Repository	University of Nebraska-Lincoln	Lincoln	NE	68583-0861
Sutter, Peter	Tunable Few-Layer van der Waals Crystals and Heterostructures as Emerging Energy and Quantum Materials	University of Nebraska-Lincoln	Lincoln	NE	68583-0861
Misra, Satyajayant	Building a federated learning framework for trustworthy and resilient energy internet of things (eIOT) infrastructure	New Mexico State University (NMSU, Las Cruces)	Las Cruces	NM	88003-8002
Yan, Juchao	Use of Carbonyl as an Infrared Reporter for Probing the Nature of Charges in Donor-Acceptor Type Conjugated Molecules	Eastern New Mexico University	Portales	NM	88130-6103
Or, Dani	Modification of Fractured Rock Permeability Field Using Polymer Foam to Improve Geothermal System Efficiency	Nevada System of Higher Education (NSHE) - Desert Research Institute	Reno	NV	89512-1095
Schwartz, Craig	Next generation solar cells Probed at the Interface with Exceptional precision (PIE): Towards new device design	Nevada System of Higher Education (NSHE) - Desert Research Institute	Las Vegas	NV	89154-1055
Cai, Jie	Aging-Aware Management of Motorized Energy Storage for Grid Flexibility Provision	University of Oklahoma	Norman	OK	73019-9705

Crossley, Steven	Interrogating complex and dynamic interfaces during carbon-free H ₂ production	University of Oklahoma	Norman	OK	73019-9705
Chen, Zhongfang	Theory-guided Innovation of High-performance Electrocatalysts for Carbon Dioxide Reduction	University of Puerto Rico at Rio Piedras	San Juan	PR	00925-3334
Peterson, Andrew	Rigorous incorporation of pH effects into ab initio electrochemical models	Brown University	Providence	RI	02912-2912
Saez, Enrique	Fundamental Understanding of Thermal Gradients and Stress States on Mass Transport in Fusion Materials	Clemson University	Clemson	SC	29634-5702
Tong, Jianhua	Redox Cycles of Novel High-Entropy Perovskite Oxides for Clean Fuel Production through Solar Thermochemical Water and Carbon Dioxide Splitting	Clemson University	Clemson	SC	29634-5702
Cotts, Benjamin	Elucidating transient localized disorder of semiconductor nanocrystals	Middlebury College	Middlebury	VT	05753-5753
Ma, Jihong	Multi-scale Study of Self-Healing Polymers to Enhance Carbon Dioxide Removal	The University of Vermont and State Agricultural College	Burlington	VT	05405-0160
Sharma, Shikha	Integrated Physicobiogeochemical and Modeling Approach to Investigate Large Scale Subsurface hydrogen Storage in the United States.	West Virginia University Research Corporation	Morgantown	WV	26506-6845
Nguyen, Nga	Optimal Operation of Large-Scale Energy Storage Systems to Improve Reliability of Clean Power Systems Using Machine Learning	University of Wyoming	Laramie	WY	82071-2000