

# Department of Energy Announces \$69 Million for Research on the Science Foundations for Energy Earthshots

Announcement Number: DE-FOA-0003003 Science Foundations for Energy Earthshots

List Posted: 9/29/2023

*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
Abbaszadeh, Shiva	Solving the Paradox of Rhizosphere Effects on Soil Carbon Cycle	University of California, Santa Cruz	Santa Cruz	CA	95064-1077
Asimaki, Domniki	A Hybrid Framework of Exascale Simulations, Observations and Deep Learning for System-Level Clean Energy Resilience and Risk Reduction	California Institute of Technology	Pasadena	CA	91125-0001
Kirst, Matias	Engineering Sporopollenin and Its Carbon Supply	University of Florida	Gainesville	FL	32611-5500
Koniges, Alice	Ka mana o ka la <sup>o</sup> : Modeling our energy future	University of Hawaii	Honolulu	HI	96822-2234
Krishnakumar Menon, Akanksha	Understanding Thermo-Chemo-Mechanical Transformations in Thermal Energy Storage Materials and Composites	Georgia Institute of Technology	Atlanta	GA	30332-0420
Mallouk, Thomas	Proton and Ion Management in Bipolar-Membrane-Based Electrochemical Systems	University of Pennsylvania	Philadelphia	PA	19104-6205
North, Justin	Biological routes for synthesizing the industrial platform chemical, propylene, from deconstructed lignin waste and captured carbon dioxide produced during lignin valorization into bio-oil	The Ohio State University	Columbus	OH	43210-1016
Pakrasi, Himadri	Unleashing Photosynthesis and Nitrogen Fixation for Carbon Neutral Production of Nitrogen Rich Compounds	Washington University	St Louis	MO	63130-4862
Peherstorfer, Benjamin	Learning reduced models under extreme data conditions for design and rapid decision-making in complex systems	New York University	New York	NY	10012-2331
Raymond, Peter	Carbon dioxide removal and high-performance computing: Planetary Boundaries of Earth Shots	Yale University	New Haven	CT	06520-8327
Rodriguez Lopez, Joaquin	Harnessing Electrostatics for the Conversion of Organics, Water and Air: Driving Redox on Particulate Liquids Earthshot (DROPLETS)	University of Illinois, Urbana-Champaign	Champaign	IL	61820-7406
Salehi-Khojin, Amin	Design, Discovery, and Synthesis Science of Porous Frameworks using Fast and Modular Heterophase Assembly	University of Illinois, Chicago	Chicago	IL	60612-7205
Saltiel, Seth	Process-based experimental and machine learning approaches for controlling fracture network generation in the brittle-ductile crust	University of Nevada, Reno	Reno	NV	89557-0240
Seetharaman, Sridhar	Fundamental studies of hydrogen arc plasmas for high-efficiency and carbon-free steelmaking	Arizona State University	Tempe	AZ	85287-6011
Stoerzinger, Kelsey	Molecular and Atomic Engineering of Interfacial Electrocatalytic Environments (MARIE)	University of Minnesota	Minneapolis	MN	55455-2070
Tolbert, Sarah	Center for STRain Optimization for Renewable Energy (STORE)	University of California, Los Angeles	Los Angeles	CA	90095-1406
Wang, Gangli	Atomic Level Compositional Complexity for Electrocatalysis (Atomic-C2E)	Georgia State University	Atlanta	GA	30302-3999
Yi, Son-Young	Advanced Multi-Physics Machine Learning for Subsurface Energy Systems Across Scales	University of Texas, El Paso	El Paso	TX	79968-0697