



December 12, 2024

Agency	Notice Type	Opportunity Title	Eligibility	Tag	Total Program Funds	Deadline	Notes
Department of Energy – EERE – Bioenergy Technologies Office	NOI	Regional Resource Hubs for Purpose-Grown Energy Crops	Unrestricted	Energy Crops			If issued, this FOA will support science and engineering-based strategies and technologies to cost-effectively transform renewable carbon resources into high-quality, environmentally sustainable, conversion-ready feedstocks for biofuels and bioproducts.
Department of Energy – ARPA-E	NOFO	SEEDING CRITICAL ADVANCES FOR LEADING ENERGY TECHNOLOGIES WITH UNTAPPED POTENTIAL (SCALEUP) READY	Unrestricted	Early stage research		Annual funding opportunity	innovative energy R&D that complements ARPA-E’s primary focus on early-stage transformational energy technologies
Department of Energy - Geological Survey	NOFO	Mineral Resources External Research Program	Unrestricted	Critical Minerals, Extraction	\$255,000	Annual funding opportunity	
Department of Energy – ARPA-E	NOFO	Realize Energy-rich Compound Opportunities Valorizing	Unrestricted	Recycling	\$36,000,000		Recovering critical metals and high energy-value materials like

		Extraction from Refuse waters (RECOVER)					ammonia from wastewater.
Department of Energy – EERE	NOFO	Smart Manufacturing Technologies for Material and Process Innovation	Unrestricted	Mining	\$33,700,000	11/18/24	Smart Technologies for Sustainable and Competitive U.S. Mining
Department of Energy – ARPA-E	NOFO	Inspiring Generations of New Innovators to Impact Technologies in Energy (IGNIITE) 2025	Unrestricted	Early stage research	\$10,000,000	11/15/2024	ARPA-E funds research on, and the development of, transformative science and technology solutions to address the energy and environmental missions of the Department.
Department of Energy – EERE	NOFO	Fiscal Year 2024 Vehicle Technologies Office Batteries Funding Opportunity Announcement	Unrestricted	Vehicle Technologies, Batteries	\$42,950,000	10/30/24 (Concepts due 9/9/24)	Development of innovative battery chemistries and component materials, reduction of cascading battery fires, and battery electrode, cell, and pack manufacturing cost reduction.
Department of Defense – OSC	RFI	Information Request on Financing Support for Covered Technology Categories-Specific to Lenders		DoD Loans-Critical Tech/Supply Chain		10/22/24	The OSC is seeking information from lenders and other private credit investors regarding capital needs for industries related to the Covered Technology Categories to inform the design and implementation of the

							DoD Loan Program Office.
Department of Defense – OSC	RFI	Information Request on Financing Support for Covered Technology Categories-Specific to Companies and Trade Associations		DoD Loans-Critical Tech/Supply Chain		10/22/24	The OSC is seeking information from companies and trade associations regarding strategic capital needs for industries related to the Covered Technology Categories to inform the design and implementation of the DoD Loan Program.
Department of Energy – OCED	NOFO	DE-FOA-0003399: ENERGY STORAGE PILOT DEMONSTRATIONS	Unrestricted	Energy Storage	100,000,000	10/16/24	support technology demonstrations for energy storage solutions at the pilot-scale. The program will focus on non-lithium technologies, long-duration (10+ hour discharge) systems, and stationary storage applications.
Department of Energy – EERE	RFI	DE-FOA-0003426: RFI Microelectronics Energy Efficiency Scaling for 2 Decades (EES2) R&D Roadmap — Public Feedback		Microelectronics/Energy Efficiency		9/30/24	The intent of this RFI is to solicit feedback from affected stakeholders on the EES2 Initiative in general and on the draft Microelectronics Energy Efficiency Scaling for 2 Decades (EES2) Research, Development, and Demonstration (RD&D) Roadmap that accompanies this RFI.

Department of Energy – FECM	NOI	Advancing Technology Development for Securing a Domestic Supply of Critical Minerals and Materials (CMM)	Unrestricted	Critical Minerals			1: Coproduction of Critical Minerals and Materials and Carbon Manufacturing Precursor Materials from Unconventional Coal and Other Carbon-based Feedstocks Area of Interest 2: Recovery of Heavy Rare Earth Elements from Secondary and Unconventional Resources Area of Interest 3: Critical Mineral Recovery from Produced Water Area of Interest 4: Process Diversification
Department of Energy – MESC	NOFO	Bipartisan Infrastructure Law (BIL) Smart Manufacturing and Recycling Tactics for States (SMART)	States, Counties, Cities	Smart Manufacturing, Recycling, includes batteries	\$63,000,000	9/16/24	Access to smart manufacturing technologies and high-performance computing resources for small- and medium-sized manufacturers by states and the recycling of batteries and battery-containing devices by states and units of local government.
Department of Defense - ERDC	NOFO	Developing biotechnologies for detection and recovery of Rare Earth Elements	Gulf Coast Cooperative Ecosystems Studies Unit (CESU)	Rare earth elements	\$825,000	9/6/24	Examine approaches to increase the selectivity and affinity of biomolecules for different REE

Department of Energy – AMMTO	NOFO	Electronics Scrap Recycling Advancement Prize	Unrestricted	E-scrap	4,000,000	9/4/24	Increase the production and use of critical materials recovered from electronic scrap— or e-scrap.
Department of Energy – EERE	Meeting	Critical Materials Collaborative Workshop		Critical Minerals Collaborative		8/12-8/13/24	Department of Energy's (DOE) Critical Materials Collaborative (CMC) is seeking your input on its Research Roadmap on Critical Materials for 2025-2035.
Department of Energy - National Energy Technology Laboratory	NOI	Fiscal Year 2024 Vehicle Technologies Office Batteries & Electrification FOA	Unrestricted	Vehicle Technologies		7/26/24	FOA will support the government-wide approach to the climate crisis by driving the innovation that can lead to the deployment of clean energy technologies, which are critical for climate protection.
General Services Administration	RFI	GSA Electric Vehicle Battery Management Strategic Plan		Battery Management		7/22/24	Strategic plan for Federal Electric Vehicle Fleet Battery Management in accordance with the National Defense Authorization Act for Fiscal Year 2023.
Department of Energy – ARPA-E	NOFO	Vision OPEN 2024	Unrestricted	Research	\$10,000,000	7/16/14	GHG-free abundant primary energy, An intermodal energy superhighway, carbon transition that sustainably meets

							demand for polymers and other materials.
Department of Energy – Office of Science	NOFO	FY 2024 Funding for Accelerated, Inclusive Research (FAIR)	IHEs	Research	\$35,000,000	7/16/24	The SC mission is to deliver scientific discoveries and major scientific tools to transform our understanding of nature and advance the energy, economic and national security of the United States.
Department of Energy - Advanced Research Projects Agency Energy	RFI	Industrial Chemistry and Process Innovations to Enable Continuous, Waste-Free, Domestic Manufacture of Critical Battery Cathode Active Materials	Unrestricted	Batteries		7/10/24	A potential ARPA-E program focused on leveraging material, process, equipment, and cross-supply chain manufacturing innovations to catalyze domestic production of cathode active materials (CAMs) and their precursors (pCAMs)
Department of Energy – EERE	NOI	Smart Manufacturing Technologies for Material and Process Innovation	Unrestricted	Smart Manufacturing		6/28/24	Manufacturing technologies that can contribute to a resilient, responsive, leading-edge and efficient manufacturing sector that delivers the technologies needed for the nation’s clean energy transition
Department of Energy – VTO	NOFO	Fiscal Year 2024 Vehicle Technologies Office	Unrestricted	Research and Development	\$49,000,000	6/24/24	FOA will support the government-wide approach to the climate

		Program Wide Funding Opportunity					crisis by driving the innovation and deploying clean transportation technologies.
Department of Energy – FECM	NOFO	Regional Scale Collaboration to Facilitate a Domestic Critical Minerals Future: Carbon Ore, Rare Earth, and Critical Minerals (CORE-CM) Initiative	Unrestricted	Research and Development	\$60,000,000	6/24/24	The planned Research and Development will provide a regional scale understanding of critical minerals prospectivity and provides insight into the potential materials that may be sourced from domestic secondary and unconventional feedstocks across the United States.
Department of Energy – BETO	NOFO	Regional Resource Hubs for Purpose-Grown Energy Crops	Unrestricted	Energy Crops	\$29,000,000	6/13/23	The RD&D activities to be funded under this FOA will support the government-wide approach to addressing the climate crisis by driving innovation and deployment of clean energy technologies.
Department of Energy – EERE	RFI	Request for Information on Clean Energy Supply Chain Analysis				6/10/24	This RFI seeks responses from manufacturers in the clean energy supply chain, end-use developers, labor unions, supply chain researchers, and other relevant stakeholders.

DOE – OE	RFI	Manufacturability Pre-Production Design Implications on Energy Storage Technologies		Energy Storage		6/10/24	Seeks information on domestic pre-production manufacturability challenges that energy storage technology developers face when making design decisions that impact production of the technology, including scaling.
DOE – ARPA-E	RFI	Recovery of High Energy-Value Materials from Wastewater		Waste streams		6/5/24	Potential ARPA-E program focused on the development of technologies to recover high energy-value materials from wastewater to reduce energy demands and greenhouse gas (GHG) emissions associated with conventional sourcing and waste stream treatment.
Environmental Protection Agency	NOFO	Advancing Sustainable Chemistry	IHEs, and Public Sector	Circular Economy Chemistry	\$6,000,000	5/29/24	Research is needed on new chemical products and chemical processes that use energy and utilities more efficiently, ensure feedstocks are optimized, are strategically consumed and reused, and provide society with chemicals and manufacturing processes that are less

							harmful to human health.
Department of Energy - Bioenergy Technologies Office	NOFO	Inflation Reduction Act Funding for Advanced Biofuels	Unrestricted	Biofuels, Bioeconomy	\$9,400,000	5/24/24	This FOA also supports high-impact technology R&D to accelerate the bioeconomy. BETO is focusing on applied RD&D to improve the performance and reduce the cost of biofuel production technologies and scale-up production systems in partnership with industry.
DOE- ARPA-E	RFI	FUTURE INNOVATION NEEDS FOR RESPONSIBLE MINING OF CRITICAL MINERALS (FIRM-CM)		Research		5/14/24	Solicit input for potential future ARPA-E research programs focused on innovative technologies and approaches for resource exploration, discovery, appraisal, mining, and processing of critical minerals.
DOE – Office of Manufacturing and Energy Supply Chains	RFI	Notice of Request for Information (RFI) on Critical Materials Market Dynamics		Critical Minerals Market Dynamics		30 days after publishment in the federal register	Office of Manufacturing and Energy Supply Chains seeks public comment on market dynamics for critical materials, including non-competitive practices and price volatility, to identify potential ways DOE can help address these concerns.

Department of Defense – NAVY	NOI	OSD A&S Battery Supply Chain Risk Mitigation Projects		Battery Supply Chain		5/7/24	The purpose of this upcoming RFS is intends to address supply chain risks by soliciting development, prototyping and demonstration efforts to help mitigate potential problems through application of modernized, advanced manufacturing technologies across four focus areas: critical battery materials, critical battery components, critical processes assessment and mitigation, and battery development and prototyping.
Department of Energy – ARPA-E	NOFO	Plant HYperaccumulators TO MIne Nickel-Enriched Soils (PHYTOMINES)	Unrestricted	Phytomining	\$10,000,000	5/7/24	Technological development of phytomining in the United States that could complement current and future domestic sources of nickel and catalyze phytomining of critical minerals beyond nickel.
Department of Energy – AMMTO	NOFO	Platform Technologies for Transformative Battery Manufacturing	Unrestricted	Batteries	\$15,700,000	5/7/24	This FOA will support activities to advance platform technologies that enable flexible, scalable, and highly controllable battery

							manufacturing processes.
Export-Import Bank of the US	RFI	Information Request on Financing Support for Critical Minerals Projects		Financing		5/6/24	EXIM seeks information on the financing gaps faced by project sponsors, users of critical minerals, and suppliers to critical minerals projects.
Department of Energy – EERE	NOFO	Bipartisan Infrastructure Law (BIL) FY23 BIL Electric Drive Vehicle Battery Recycling and Second Life Applications	Institutions of higher education, for-profit entities, nonprofit entities, state and local government entities, US territories, Tribes	Recycling, Supply Chain, Research and Development	\$37,000,000	4/19/2024, concept papers due 2/7/2024	This BIL section is focused on research, development, and demonstration of: 1.Second-life applications for electric drive vehicle batteries that have been used to power electric drive vehicles; and 2.Technologies and processes for final recycling and disposal of electric drive vehicle batteries
Department of Energy – Office of Science	NOFO	Small Business Technology Transfer (SBIR/STTR) program	small, independent United States (U.S.) businesses	Small business,	\$65,000,000	LOI due 2/2 and full applications due 3/12	Clean Energy Research and Development. Including in Critical Minerals. The full list of topics can be found here .
Department of Energy – ARPA-E	NOFO	Catalyzing Innovative Research for Circular Use of Long-Lived	Small Businesses	SBIR: Circular Economy, Rechargeables	\$30,000,000	3/12/24	Small businesses only: Translate the definition of a circular economy to the domestic EV battery supply chain by supporting the

		Advanced Rechargeables SBIR/STTR (CIRCULAR SBIR/STTR)					development of innovative solutions that can overcome both the technological and economic barriers to broad commercial adoption.
Department of Energy – ARPA-E	NOFO	Catalyzing Innovative Research for Circular Use of Long-Lived Advanced Rechargeables (CIRCULAR)	Unrestricted	Circular Economy, Rechargeables	\$30,000,000	3/12/24	Translate the definition of a circular economy to the domestic EV battery supply chain by supporting the development of innovative solutions that can overcome both the technological and economic barriers to broad commercial adoption.
Department of Energy – AMMTO	NOFO	Re-X Before Recycling Prize	Individuals, teams of individuals, private entities (for-profits and nonprofits), and nonfederal government entities (such as states, counties, tribes, municipalities, and academic institutions).	Recycling, Remanufacturing	Up to \$4.5 million in total cash prizes and \$1.1 million in national laboratory analysis consultation and technical assistance.	3/12/2024	This three-phase competition is designed to develop innovative ways to extend the lifetimes of products or parts via re-using, repairing, refurbishing, remanufacturing, or repurposing (“Re-X”) before recycling.

Department of Energy - Battelle Alliance	Licensing	Nickel & Cobalt Recovery from Waste Lithium-Ion Batteries		Batteries		2/27/2024	
Department of Energy - OCED	NOI	Notice of Intent: Distributed Energy Systems Demonstrations		Energy System	\$50,000,000	1/29/2024	
Department of Energy – MESC	NOFO	Bipartisan Infrastructure Law (BIL) Battery Materials Processing and Battery Manufacturing	Individuals, Institutions of higher education, National Laboratories, Nonprofit and for-profit entities, State and local governments , Consortia of entities described above.	Battery Materials, Supply Chain, Battery Manufacturing	\$3,500,000,000	Concept Papers Due 1/9/2024; due 3/19/2024	Areas of Interest: 1.Commercial-scale Lithium Separation from Domestic Sources 2.Commercial-scale Domestic Recovery of Battery Critical Minerals (non-Lithium) 3. Commercial-scale Domestic Processing of Battery Material Precursors 4.Commercial-scale Domestic Manufacturing of Battery Cathodes and Anodes 5. Commercial-scale Domestic Production of Electrolyte Salts and Electrolyte Solvents 6. Commercial-scale Domestic Production of Cell Manufacturing for Small and Specialized Markets 7.Commercial-scale Domestic Production of Non-Lithium Based

							Battery Cell and Systems 8. Open Topic
Department of Energy – AMMTO	NOFO	Critical Materials Accelerator	Institutions of higher education; For-profit entities; Nonprofit entities; and State and local governmental entities and federally recognized Indian Tribes.	Critical Minerals, Supply Chain, Processing, Manufacturing, Clean Energy	\$10,000,000	Concept papers due 1/5/2024, full applications due 3/22/2024	<p>This FOA solicits proposals that advance innovation to realize the Department’s critical minerals and materials vision of a reliable, resilient, affordable, diverse, sustainable, and secure domestic supply chains for the clean energy economy. Projects funded under this FOA will de-risk innovation and mature technology development in partnership with industry.</p> <p>Topic 1 – Use of Magnets with Reduced Critical Materials Content Topic 2 – Improved Unit Operations of Processing and Manufacturing of Critical Materials Topic 3 – Critical Material Recovery from Scrap and Post-Consumer Products</p>

							Topic 4 – Reduced Critical Material Demand for Clean Energy Technologies
Department of Energy - NETL	NOFO	STORAGE INNOVATIONS 2030: TECHNOLOGY LIFTOFF	Unrestricted	Research and Development	\$15,000,000	12/4/2023	
Department of Energy - NETL	NOI	Domestic Manufacturing Conversion Grants	Independent School Districts	Manufacturing		11/30/2023	
Department of Energy - EERE	NOFO	Battery Research and Development Consortium	Higher Education, For-Profit, Non-Profit, State/Local/Tribal Gov't, DOE/NNSA FFRDCS, Federal Agencies not DOE	Batteries	\$60,000,000	11/29/2023	
Department of Energy - SETO	NOFO	Materials, Operation, and Recycling of Photovoltaics (MORE PV)	Unrestricted	Solar	\$20,000,000	11/28/2023	
Federal Permitting Improvement Steering Council	Rule and Request for Comments	Revising Scope of the Mining Sector of Projects That Are Eligible for Coverage Under Title 41 of the Fixing America's Surface Transportation Act	Unrestricted	Critical Minerals, Mining, Supply Chain		11/22/2023	Request for comment on a proposal to revise the scope of “mining” as a sector with infrastructure projects eligible for coverage under Title 41 of the Fixing America's Surface Transportation Act (FAST-41) to: (1) apply

							solely to critical minerals mining projects; and (2) expand the scope of the sector to include infrastructure constructed to support critical minerals supply chain activities, including critical minerals beneficiation, processing, and recycling.
Department of Defense – DARPA	RFI	Open Price Exploration for National security (OPEN)	Unrestricted	Critical Minerals, Pricing		11/20/2023	DARPA is soliciting approaches to address challenges in the following areas: metals and rare earth minerals pricing; input costs to metals and rare earth minerals extraction and refining; supply and demand curve estimation and forecasting; quantitative industrial organization, game theory, and mechanism design.
Department of Energy - NETL	NOI	Notice of Intent DE-FOA-0003159 to issue Funding Opportunity Announcement DE-FOA-0002614 titled Carbon Management (Round 4)	Unrestricted	Carbon Management		11/18/2023	

Department of Energy - EERE	NOFO	Silicon Solar Manufacturing, and Dual-use Photovoltaics Incubator	For-Profits	Solar	\$45,000,000	11/14/2023	
Lawrence Livermore National Laboratory (LLNL)	Special Notice: Partnership Request	Opportunity Notice for parties interested in being cost share partners with LLNL under Funding Opportunity DE-FOA-0003105: Critical Materials Innovation, Efficiency, and Alternatives	Industry Partners who are USA incorporated and have a USA base of operations and are willing to meet cost share requirements and establish longer term collaborative relationships via future collaborative agreements.	Critical Minerals, National Laboratory		11/10/2023	Companies interested in partnering with LLNL should reach out to them well before the FOA due date indicating their interest, a point of contact and a description of their expertise relevant to the FOA.
Department of Energy - GFO	NOI	Notice of Intent to issue Critical Materials Accelerator Funding Opportunity Announcement	Unrestricted	Clean Energy Technology, Clean Energy Production		11/10/2023	Areas of Interest: Critical Material Lean/Free Magnets for Clean Energy Technologies, Motors and Drivetrains using Critical Material Lean/Free Magnets, Improved Unit Operations of Processing and Manufacturing of Critical

							Materials, Critical Material Recovery from Scrap and Post-Consumer Products, Reduced Critical Material Demand for Clean Energy Technologies
Department of Energy	NOFO	BIL 41003c-Critical Material Innovation, Efficiency, and Alternatives	Unrestricted	Critical Minerals	\$150,000,000	11/10/2023	CMM Supply Chain, Value Added Products, Next Generation Technologies, Alternative Materials, Alternative Products
Department of Defense - WHS	NOFO	OSD ManTech Program, Manufacturing Education and Workforce Development	Non-profit institutions, institutions of higher education, state and/or local educational agencies, or consortia of such institutions and/or industry with national reach	Manufacturing Education, Workforce Development	\$18,000,000	11/6/2023	Promotion of education and training of the defense manufacturing workforce
Department of Energy - NETL	NOI	NOI: Bipartisan Infrastructure Law 40207(b) Battery Materials Processing and 40207(c) Battery Manufacturing Grants Round II	NOI only; will be included in FOA.	Battery Processing, Battery Manufacturing		10/31/2023	

Department of Energy - NETL	NOFO	Advanced Processing of Critical Minerals and Materials for Industrial and Manufacturing Applications	Unrestricted	Critical Minerals, Manufacturing, Development, Coal	\$30,000,000	10/20/2023	
Department of Energy - NETL	NOI	Regional Initiative for Technical Assistance Partnerships (RITAP) to Advance Deployment of Basin-Scale Carbon Transport and Storage and Community Engagement	Unrestricted	Carbon Transport and Storage	\$20,000,000	10/17/2023	
Department of Energy - NETL	NOFO	Energy Storage Demonstration and Validation	Unrestricted	Energy Storage Systems	\$15,000,000	10/4/2023	
Department of Energy	RFI	Launching a Responsible Carbon Management Initiative		Carbon Mangement		9/11/2023	
Department of Energy - EERE-MESC	NOFO	Front-End Engineering and Design Studies for Production of Critical Minerals and Materials from Coal-Based Resources	Unrestricted		\$32,000,000	9/11/2023	Press Release Linked Here
Department of Energy - EERE-MESC	NOFO	CONSUMER ELECTRONICS BATTERY RECYCLING, REPROCESSING, AND BATTERY COLLECTION	Institutions of higher education, For-profit entities, Non-profit entities,	Batteries	\$125,000,000	9/8/2023	

			State/Local/Tribal Gov't				
Department of Energy	NOI	Notice of Intent to Issue Funding Opportunity Announcement: Critical Material Innovation, Efficiency, and Alternatives Funding Opportunity Announcement	Unrestricted	Critical Materials, Demonstration	\$150,000,000	8/28/2023	FECM plans to issue the FOA on or about September 2023 via the Grants.gov website.
Department of Energy - Advanced Materials and Manufacturing Technologies Office (AMMTO) and the Fossil Energy and Carbon Management Office (FECM)	RFI	DE-FOA-0003130: REQUEST FOR INFORMATION FOR ACCESS TO HIGH PERFORMANCE COMPUTING RESOURCES AT DEPARTMENT OF ENERGY NATIONAL LABS	Unrestricted	Manufacturing, Demonstration, High-Performance Computing		8/25/2023	The intent of this RFI is to better understand the perceived value of high-performance computing (HPC) capabilities to manufacturers and the experiences of companies that have interacted with the High Performance Computing for Energy Innovation (HPC4EI) program.
Department of Energy - ARPA-E	NOFO - Concept Papers	DE-FOA-0003118: REVOLUTIONIZING ORE TO STEEL TO IMPACT EMISSIONS SBIR/STTR (ROSIE SBIR/STTR)	Unrestricted	Iron, Demonstration	\$35,000,000	Concept Paper Due 8/8/2023	The program will have two categories: Category A includes processes from ore to ironmaking. Category B must include ironmaking but can extend to downstream steel production.

Department of Energy - ARPA-E	NOFO - Concept Papers	DE-FOA-0003117: REVOLUTIONIZING ORE TO STEEL TO IMPACT EMISSIONS (ROSIE)	Unrestricted	Iron, Demonstration	\$35,000,000	Concept Paper Due 8/8/2023	The program will have two categories: Category A includes processes from ore to ironmaking. Category B must include ironmaking but can extend to downstream steel production.
Department of Energy - LPO	Rule	Loan Guarantees for Clean Energy Projects				7/31/2023	Date that comments close
Department of Transportation	RFI	Potential Research and Development Areas of Interest for the Advanced Research Projects Agency-Infrastructure (ARPA-I): Request for Information		Renewable Energy, Innovative Infrastructure		7/28/2023	
Department of Energy	Meeting	Industry Day- Expanding Clean Energy Generation on DOE Lands		Renewable Electricity		7/28/2023	
Department of Energy - Office of Science	Meeting	Basic Energy Sciences Advisory Committee: Meeting		Solar, Renewable Energy		7/27/2023	
Department of Energy	RFI	Department of Energy Solicitation: High-Risk Energy Research and Development		Energy Research, Critical Mineral Extraction		7/25/2023	
Department of Defense - DARPA	Meeting	Separation and Purification of Rare Earth Elements (SPREE) Workshop		Rare Earth Elements		7/24/2023	

Department of Energy - ARPA-E	NOFO	Seeding Critical Advances for Leading Energy Technologies With Untapped Potential (SCALEUP 2023)	Unrestricted	Energy Technology	\$100,000	7/21/2023	SCALEUP competitions occurred in 2019 and 2021 as well.
Department of Energy - NETL	NOFO	Bipartisan Infrastructure Law (BIL): Storage, Validation and Testing (Section 40305): Carbon Storage Assurance Facility Enterprise (CarbonSAFE): Phases III, III.5, and IV	Unrestricted	Carbon Capture	\$2,250,000,000	7/20/2023	
Department of Energy - EERE	NOFO	CLEAN HYDROGEN ELECTROLYSIS, MANUFACTURING, AND RECYCLING	Industry Partners	Clean Hydrogen	\$500,000,000	7/19/2023	
Department of Energy - NETL	RFI	Facilitating a Domestic Critical Minerals Future: Carbon Ore, Rare Earths and Critical Minerals (CORE-CM) Initiative		Carbon Ore, Rare Earths, Critical Minerals		7/17/2023	
Department of the Interior - BOEM	NOFO	The Ecological Characterizations of Marine Minerals on the Outer Continental Shelf	Higher Education	Critical Minerals	\$600,000	6/29/2023	
Department of Energy	RFI	DE-FOA-0003085: REQUEST FOR INFORMATION TO PROVIDE FEEDBACK ON CRITICAL		Critical Minerals Assessment, Research		6/20/2023	

		MATERIALS ASSESSMENT					
Department of Energy - GFO	NOFO	Small Innovative Projects in Solar: Concentrating Solar Power and Photovoltaic (SIPS: CSP & PV) - Annual	Unrestricted	Solar Power	\$6,500,000	6/1/2023	Annual funding opportunity
Department of Energy - Office of Science	NOFO	Energy Innovation Hub Program: Research to Enable Next-Generation Batteries and Energy Storage	Unrestricted	Rechargeable Batteries, Energy Storage	\$125,000,000	5/18/2023	
Department of Energy - NETL	NOFO	Carbon Utilization Procurement Grants	City, State, County Governments	Carbon Utilization Procurement	\$50,000,000	4/30/2023	
Department of the Interior - Geological Survey	NOFO	Earth Mapping Resources Initiative (Earth MRI) Mine Waste Cooperative Agreements	State Governments	Mine Waste	\$5,000,000	4/13/2023	
Department of Energy - NETL	NOFO	BIL - Rare Earth Element Demonstration Facility	Higher education	Critical Minerals, Demonstration	\$32,000,000	11/21/2022	
Department of Defense - Army Corps of Engineers	NOFO	Developing Biotechnologies for Detection and Recovery of Rare Earth Elements	Non-federal partners of the Gulf Coast Cooperative Ecosystems Studies Unit	Rare Earth Elements	\$350,000	8/19/2022	
Department of Energy - ARPA-E	NOFO	Mining Innovations for Negative Emissions Resource Recovery (MINER)	Unrestricted	Mining, Commercialization, Critical Minerals	\$44,000,000	7/25/2022	While we are unsure if this program is recurring, two rounds of funding have gone

							out and awards can be viewed at https://arpa-e.energy.gov/highlights/1085 .
Department of the Interior	NOFO	Energy and Mineral Development Program (EMDP)	Tribal governments	Technical Assistance, Energy Research	\$9,200,000	4/27/2022	Annual program with NOFO expected in spring/summer 2023. Additional information can be found at: https://sam.gov/fal/d1c32f1de66b4ee49f1c54fb6e52ee58/view .
Department of Energy - Office of Science	NOFO	Critical Minerals & Materials: Chemical and Materials Sciences Research on Rare Earth and Platinum Group Elements	Unrestricted	Critical Minerals	\$30,000,000	6/9/2021	
Department of Energy - NETL	NOFO	Advanced Processing of Rare Earth Elements and Critical Minerals for Industrial and Manufacturing Applications	Foreign entities, whether for-profit or otherwise, are not eligible to apply for funding as a Prime Recipient or be proposed as a Subrecipient.	Minerals Processing	\$1,200,000	4/22/2021	
Department of Energy - ARPA-E	RFI	RFI - CO2 Mineralization to Enhance the Extraction of Energy -	Unrestricted	Critical Minerals, Extraction		2/18/2021	

		Relevant and Commodity Minerals					
Department of State	NOFO	The Energy Resource Governance Initiative (ERGI) Academy	Higher Education	Minerals Governance	\$691,250	8/9/2020	
Department of Energy - NETL	NOI	Carbon Ore, Rare Earths and Critical Minerals (CORE-CM) Initiative for U.S. Basins	Unrestricted	Carbon		6/26/2020	
Department of Defense - Air Force	NOFO	Defense Production Act Title III Expansion of Domestic Production Capability and Capacity; Call 005 Rare Earth Element (REE) Separation and Processing Project	For-Profit Organizations	Rare Earth Elements	\$40,000,000	3/2/2020	
Department of Energy - ARPA-E	RFI	RFI - Biotechnologies to Ensure a Robust Mineral Supply Chain for Clean Energy	Unrestricted	Clean Energy, Critical Minerals, Copper		12/17/2019	
Department of Energy - NETL	NOFO	Sources Sought: Critical Minerals Market Analysis	Unrestricted	Critical Minerals		10/18/2019	
Department of Energy - NETL	NOFO	Process Scale-Up and Optimization/Efficiency Improvements for Rare Earth Elements (REE) and Critical Materials (CM) Recovery from United States Coal-Based Resources	Unrestricted	Rare Earth Elements, Recovery, Production	\$20,000,000	6/10/2019	
Department of Energy - NETL	NOFO	Development of Transformational	Unrestricted	Rare Earth Elements	\$3,950,000	7/18/2017	

		Separation and Extraction Processes for Production of Rare Earth Element Materials from Domestic U.S.Coal and Coal By-Products					
Department of Energy - NETL	NOFO	Production of Salable Rare Earth Element Materials from Coal and Coal Byproducts	Unrestricted	Rare Earth Elements	\$2,000,000	12/8/2016	
General Services Administration	NOFO	RFQ for Graphite	Unrestricted	Graphite		4/22/2016	
Department of the Interior - NPS	NOFO	Abandoned Mineral Lands Support in Glen Canyon Recreation Area	State Governments	Mining	\$41,600	8/13/2014	
Department of Energy - GFO	NOFO	Solar Market Pathways	Unrestricted	Solar Energy		7/3/2014	
Department of Energy - GFO	NOFO	Clean Energy Manufacturing Innovation Institute for Composite Materials and Structures	Unrestricted	Composites	\$70,000,000	6/24/2014	
Department of Energy - NETL	NOFO	FY 2014 Vehicle Technologies Program Wide Funding Opportunity Announcement	Unrestricted	Research and Development	\$51,400,000	4/1/2014	
Department of Energy - GFO	NOFO	Solar Utility Networks - Replicable Innovations in Solar Energy (SUNRISE)	Unrestricted	Solar Energy, Renewable Energy		5/1/2013	
Department of Energy - GFO	NOFO	Physics of Reliability: Evaluating Design Insights for	Unrestricted	Solar Energy		4/29/2013	

		Component Technologies in Solar (PREDICTS)					
Department of Energy - GFO	NOFO	Rooftop Solar Challenge II	Unrestricted	Solar Energy		3/22/2013	
National Science Foundation	NOFO	Energy for Sustainability	Unrestricted	Research and Development, Renewable Energy	\$9,200,000	2/17/2012	
Department of Energy - GFO	NOFO	Solar Energy Grid Integration Systems - Advanced Concepts	Unrestricted	Solar Energy		6/23/2011	
Department of Energy	Rule	Rare Element Resources, Inc.; Rare Earth Element Demonstration Plant		Rare Earth Elements, Demonstration			
Department of Energy	Rule	Notice of Final Determination on 2023 DOE Critical Materials List		Critical Minerals, Energy			
Department of Energy	NOI	Notice of Intent to Issue Carbon Negative Shot Pilots	Unrestricted	Carbon Management			Expected Fall 2023
Department of Energy	RFI	Lithium-Ion Battery Safety: Notice of Meeting and Request for Comments		Battery Safety			The Commission will accept written comments through 8/21/2023.
Department of Energy	NOFO	HPC4EnergyInnovation Program: Collaborations for U.S. Manufacturers	Industry Partners	Decarbonization, Domestic Production			The High-Performance Computing for Energy Innovation (HPC4EI) Program seeks qualified industry partners to participate in short-term, collaborative projects with the Department of Energy's

							(DOE) National Laboratories.
Department of Energy - NETL	NOI	Energy Storage Demonstration and Validation	Unrestricted	Energy Storage, Demonstration	\$12,000,000		
Department of Energy - GFO	NOI	Advancing U.S Thin-Solar Film	For-Profits	Solar	\$36,000,000	Deadline TBD; released September 12, 2023	

American Critical Minerals Association