



Small Business FORUM & EXPO

July 11-12, 2023 | New Orleans Marriott | New Orleans, Louisiana

AMERICAN CLEAN ENERGY POWERED BY SMALL BUSINESSES



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Doing Business with DOE's Office of Fossil Energy and Carbon Management (FECM), the National Energy Technology Laboratory (NETL)

Brent M. Burns
Contracting Officer
Department of Energy
National Energy Technology Laboratory

Tuesday, July 11, 2023

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The National Energy Technology Laboratory

Organization Snapshot

MISSION

Driving innovation and delivering solutions for an environmentally sustainable and prosperous energy future:

- Ensuring affordable, abundant and reliable energy that drives a robust economy and national security, while
- Developing technologies to manage carbon across the full life cycle, and
- Enabling environmental sustainability for all Americans.

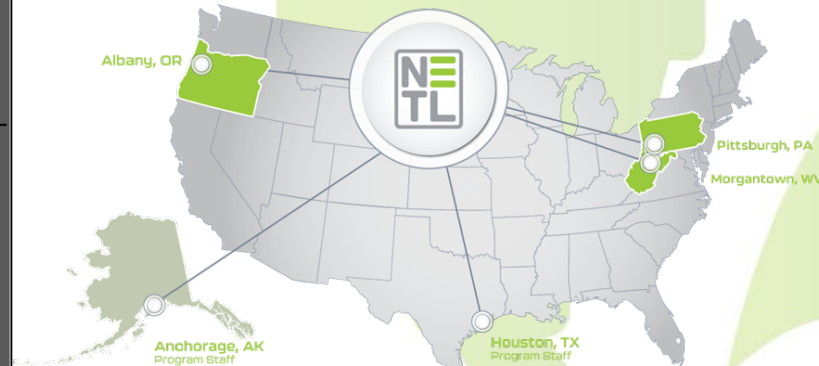
VISION

To be the nation's premier energy technology laboratory, delivering integrated solutions to enable transformation to a sustainable energy future.

MAJOR INITIATIVES

- Decarbonization & Carbon Management
- Environmentally Sustainable Supply Chains
- Integrated Energy & Industrial Systems
- Advanced Data & Computing Solutions for Applied Energy Challenges

3 RESEARCH LABS & 2 STRATEGIC OFFICES



- One of 17 DOE national laboratories
- One of three applied research national labs
- Government owned & operated
- 1000+ R&D projects in 50 states
- \$5.0B total award value
- \$1.3B FY23 budget

IMPLEMENTS R&D PROJECTS FOR DOE'S OFFICES OF:

- Fossil Energy & Carbon Management
- Energy Efficiency Renewable Energy
- Electricity
- Cybersecurity, Energy Security, & Emergency Response
- Manufacturing, & Energy Supply Chains
- Grid Deployment
- Clean Energy Demonstrations

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NETL Snapshot

By the Numbers

- 3 labs across U.S.
- 1000+ R&D projects in 50 states
- \$5.0B total award value
- \$1.3B FY23 budget

Workforce

- 1,470 Full Time Equivalent Employees (FTEs)
- 31 Joint Faculty
- 7 Postdoctoral Researchers
- 12 Graduate Students
- 2 Undergraduate Students



Breakdown includes both NETL base and BIL positions.

Updated February 2023

NETL manages & implements an array of activities for multifaceted R&D programs

- Program planning, development, and execution
- Legal, financial, procurement and Head of Contracting Activity (HCA)
- Project management expertise

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Partnering with NETL



The TOOLBOX 



- Cooperative Research and Development Agreement (CRADA)
- Contributed Funds-In Agreement (CFA)
- Memorandums of Understanding (MOU)/ Memorandums of Agreement (MOA)
- Interagency Agreements (IAA)

- Interinstitutional Agreements (IIA)
- Small Business Innovation Research (SBIR) & Small Business Technology Transfer (STTR) Programs
- Unsolicited Proposals (USP)
- Non-disclosure Agreement (NDA)
- Funding Opportunity Announcement (FOA)

Available Technologies

- NETL's technology portfolio contains a broad range of innovations that have resulted from research
- Technologies and intellectual property available for licensing on NETL's website

Available Technologies:

<https://www.netl.doe.gov/business/tech-transfer/available-technologies>

Funding Opportunity Announcement (FOA)

- NETL uses FedConnect.net, Grants.gov and SAM.gov to post FOAs
- Proposals and applications are only accepted electronically through FedConnect.net or Grants.gov

Funding Opportunities:

<https://www.netl.doe.gov/business/solicitations>

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BIL Support to DOE Offices

Funding FY2023
Total: \$7.4B

Energy Efficiency & Renewable Energy

\$134M

- BIL Consumer Electronics Battery Recycling and Reprocessing**
- Electric Drive Vehicle Battery Recycling and Second-Life Applications Programs

Joint Office of Energy & Transportation**

\$51M

- Facilitate collaboration between DOE & DOT
- Deploy network of electric charges, zero-emission fueling infrastructure, and zero-emission transit and buses.

Cybersecurity, Energy Security, & Emergency Response

\$60M

- Rural and Municipal Utility Advanced Cybersecurity Grant and Technical Assistance Program
- Enhanced Grid Security

Manufacturing & Energy Supply Chains*

\$2.8B

- Advanced Energy Manufacturing and Recycling Grant Program
- Battery Processing and Manufacturing
- State Manufacturing Leadership

Grid Deployment Office (GDO)**

\$4.4B

- Formula Grants to States and Indian Tribes
- BIL Grid Resilience and Innovation Partnerships (GRIP) Program

*Acquisition at NETL Project Management at HQ

**Availability of funds or schedule delays could cause some funding to be awarded in FY24

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Inflation Reduction Act (IRA) Investment

\$150M to support modernization at all 3 NETL research sites, including:

- ▶ Alloy Development
 - ▶ Computation, Data & Visualization
 - ▶ Process Development
 - ▶ Site-wide Infrastructure Upgrades
- Largest investment in climate and energy in American history, putting the US on a pathway to achieving the administration's climate goals, including a net-zero economy by 2050.



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Top 10 NAICS Codes by Dollars in FY2022

NAICS Code	NAICS Description	Dollars (Millions)
541715	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES	\$130.6
541330	ENGINEERING SERVICES	\$44.7
561210	FACILITIES SUPPORT SERVICES	\$42.7
541512	COMPUTER SYSTEMS DESIGN SERVICES	\$22.1
541519	OTHER COMPUTER RELATED SERVICES	\$9.2
541611	ADMINISTRATIVE MANAGEMENT & GENERAL MANAGEMENT CONSULTING SERVICES	\$5.4
541612	SECURITY GUARDS AND PATROL SERVICES	\$4.7
213112	SUPPORT ACTIVITIES FOR OIL AND GAS OPERATIONS	\$3.2
334111	ELECTRONIC COMPUTER MANUFACTURING	\$2.2
334516	ANALYTICAL LABORATORY INSTRUMENT MANUFACTURING	\$1.9

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Prime Contract Overview

TITLE	CONTRACTOR NAME	AWARD NUMBER	PERFORMANCE PERIOD (INCLUDING OPTIONS)
Information Technology Support Services (ITSS) *	Maximus Federal Consulting LLC (Awarded Small now Large Business)	DE-DT0013924	2/01/2018 to 7/31/2023
Site Security Services	Diversified Protection Corporation (8a SDB)	89243319FFE400140	2/1/2020 to 1/31/2025
Site Operations Services (SOS)	WE2 Support Service 8A JV, LLC (8a SDB)	89243320CFE000041	4/1/2020 to 3/31/2025
Research Support Services (RSS)	Leidos Innovations Corporation (Large Business)	89243318CFE000003	12/31/2018 to 12/30/2028
Strategic Analysis (SA)	KeyLogic Systems, LLC (Large Business)	89243323CFE000075	02/01/2023 to 01/31/2028
Mission Execution (ME)	KBC Energy Solutions LLC (Small Business)	89243323CFE000074	04/01/2023 to 03/31/2028

*NETL awarded an interim ITSS task order HHSN316201200117W/89243323FFE400466 to Maximus for a base period of nine months with a single option for three months of services.

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Simplified Acquisition/Micro-Purchase Overview

- ❑ NETL procurements \$10K-\$250K set-aside for small business opportunities and socio-economic sub-categories
 - SB research performed for Government Purchase Card/Micro-purchase actions - threshold value <\$10K
- ❑ Use of Existing Contract Vehicles
 - Category Management / Best-in-Class (BIC) contract vehicles: designated by the Office of Management and Budget (OMB) as preferred governmentwide solutions
 - Increase in use of existing Government-Wide Acquisition Contracts (GWACs) and Schedules (i.e.: GSA, NASA SEWP, NITAAC) with SB's targeted
- ❑ FY22 Summary of "Awards"
 - 82 Purchase Orders with a total value of \$6.3M
 - > 1,000 Purchase Card awards with a total value of \$2.4M
 - 90 Delivery/Task Orders with a total value of \$10M

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Construction/A&E Overview

- ❑ Annual construction budget is ranges from \$15M - \$20M with number of construction projects ranging around 25 to 30 per year.
- ❑ To fulfill the construction requirements, the Government utilizes subsets of small business (8(a), HubZone, SDVOB, WOSB, etc.) construction contractors through competitive and non-competitive awards.
- ❑ In addition to NETL's annual construction program, we have embarked upon a \$150M construction program with funding from the Inflation Reduction Act.
 - Advanced Alloy Development Facility (Albany OR)
 - Computational Science & Engineering Center (Morgantown WV)
 - Geoscience, Environmental, & Material (GEM) Computational Visualization Center (Albany OR)
 - Process Development Laboratories – CO₂ Utilization & Critical Materials (Pittsburgh PA)
 - ESNET upgrade (equipment at all 3 NETL sites)
 - General sitewide upgrades and modernization (all 3 NETL sites)

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Forecast Opportunities*

Program/Site Office Name: National Energy Technology Laboratory

Type of Acquisition: Information Technology Support Services 2 (ITSS2)

Acquisition Description: Support for Information Technology (IT) operation and maintenance functions, inclusive of Enterprise IT, Cybersecurity, High Performance Computing, Research IT.

Type of Action: Small Business (Tentative) | **NAICS Code:** 541512

Estimated Dollar Range: \$100M-\$200M | **RFP Release Date:** Late FY23/Early FY24

Contact Info: Ryan S. Moore, Ryan.S.Moore@netl.doe.gov, (412) 386-9345 or Amanda Lopez, Amanda.Lopez@netl.doe.gov, (304) 285-4220

Program/Site Office Name: National Energy Technology Laboratory

Type of Acquisition: Site Operation Support Services

Acquisition Description: Wide range of infrastructure, installation, and operational support services at the NETL Albany, OR; Morgantown, WV; and Pittsburgh, PA sites.

Type of Action: 8(a) Competitive | **NAICS Code:** 561210

Estimated Dollar Range: \$200-300M | **RFP Release Date:** FY 2024

Contact Info: Jason Efaw, Jason.Efaw@netl.doe.gov, (304) 285-5254 or Mathew Gibson, Mathew.Gibson@netl.doe.gov, (304) 285-0275

**Opportunity forecasts are subject to change at the discretion of the Contracting Officer.*

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Forecast Opportunities*

Program/Site Office Name: National Energy Technology Laboratory

Type of Acquisition: Site Security Services

Acquisition Description: Provide a wide range of routine and emergency site security support services at the NETL Albany, OR; Morgantown, WV; and Pittsburgh, PA sites.

Type of Action: 8(a) Competitive | **NAICS Code:** 561612

Estimated Dollar Range: \$10M-\$20M | **RFP Release Date:** FY 2024

Contact Info: Mathew Gibson, Mathew.Gibson@netl.doe.gov, (304) 285-0275

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Suggested Resources

- **DOE OSDBU Acquisition Forecast**
www.energy.gov/osdbu/acquisition-forecast
- **NETL Site Support Electronic Reading Room**
www.netl.doe.gov/business/site-support
- **NETL Small Business Corner**
www.netl.doe.gov/small-business
- **System for Award Management**
<https://www.SAM.gov>
- **FedConnect (Search Public Opportunities)**
www.fedconnect.net
- **NASA SEWP V**
<https://www.sewp.nasa.gov>
- **GSA E-Library**
<https://www.gsaelibrary.gsa.gov/ElibMain/home.do>

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Questions & Assistance

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