

COMPLETE THIS FORM TO INITIATE SUPPLIER SCOUTING

MEPNN Supplier Scouting Opportunity Synopsis

*The submitting organization (MEP Center, requesting company, federal/state agency) agrees to notify NIST MEP of the status of actions taken as a result of this scouting instance within 30 days after receiving a results report. Notification should be via email to scouting@nist.gov, indicating the following:

- Contact with matches identified in report complete and supply contract awarded, process complete
- Contact with matches identified in report complete and no supply contract awarded, process complete
- Contact with matches identified in report complete and supply negotiations underway, process in progress
- Contact with matches identified in report underway; supply negotiations not yet begun; process in progress
- Contact with matches identified in report not yet begun, process in progress
- Contact with matches identified in report will not occur within the next 6-months, process complete

Static dilutor and canister cleaner upgrade

_____ days

Opportunities will be posted for 30 days unless specified

Item to be Scouted

Please describe the item application/ the end use of item.* Provide the item number if applicable: (N95 Mask vs Protective Mask).

The static dilutor will be able to produce low concentrations of gas standards in stainless steel canisters following EPA Method TO-15A. The canister cleaner upgrade components will expand the capacity of the current Entech 3100A canister system and must be compatible with this current canister cleaner.

2023-003

Supplier Scouting Number (NIST MEP use)

Scouting customer/product [NAICS Code](#), if known

TECHNICAL INFORMATION:	1. Supplier Information	a. Type of supplier being sought* <input type="checkbox"/> Manufacturer <input type="checkbox"/> Contract Manufacturer <input checked="" type="checkbox"/> Distributor <input type="checkbox"/> Other _____
		b. Reason for scouting submission* <input checked="" type="checkbox"/> 2 nd Supplier <input type="checkbox"/> Price <input type="checkbox"/> Re-shore <input type="checkbox"/> Past supplier no longer available <input type="checkbox"/> New Product Startup <input type="checkbox"/> Other _____
	2. Summary of Technical Specifications and Performance Requirements:	a. Describe the manufacturing processes (elaborate to provide as much detail as possible).* <i>Ex: injection molding, metal casting, electronic assembly;</i> Instrument parts will be assembled
		b. Provide dimensions / size / tolerances / performance specifications for the item.* <i>Ex: 16" x 9" sheets; clearance of .005mm;</i> Performance specifications are detailed in Statement of Work
		c. List required materials needed to make the product, including materials of product components.* <i>Ex: Steel plate and rivets; High Density Polyethylene</i> Metal plates and boxes, computer boards, valves, metal tubing.

BUSINESS INFORMATION:	2. Summary of Technical Specifications and Performance Requirements cont:	<p>d. Are there applicable certification requirements?* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please explain</p> <p><i>Ex: Needs to be compliant with Underwriters Laboratory certifications.</i></p>
		<p>e. Are there applicable regulations?* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please explain</p> <p><i>Ex: Needs to be compliant with FDA regulations; For additional guidance...</i></p>
		<p>f. Are there any other standards, requirements, etc.?* <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Please explain</p> <p>See statement of work for minimum government specifications.</p>
		<p>g. Additional Comments: Is there other information that would impact the item's performance or usefulness? Please explain.</p> <p>Components must be compatible with Entech 1.4 L and 6 L canisters and Entech 3100A canister cleaner.</p>
BUSINESS INFORMATION:	3. Volume and Pricing	<p>3a. Estimated potential business volume (i.e., # Units Per Day, Month, Year) *:</p> <p>2000 samples prepared per year.</p>
		<p>b. Estimated target price / unit cost information (if unknown, explain) *:</p> <p>\$42,863.17</p>
	4. Delivery Requirements:	<p>a. When is it needed by? (Immediate, 30 Days, 6 months, etc.)*</p> <p>12 weeks</p>
		<p>b. Describe packaging requirements (i.e., individually/group packaging)*</p> <p>Components can be invidividually wrapped</p>
		<p>c. Where will this item be shipped? *</p> <p>Research Triangle Park, NC</p>
	5. Additional Comments:	<p>Is there other information you would like to include?</p>

Photos or diagrams of the item (helpful but not required).

Statement of Work – Canister Dilution and Cleaning Upgrades

The Air Methods and Characterization Division (AMCD) of the EPA Office of Research and Development Center of Environmental Measurement and Modeling (CEMM) would like to acquire a static dilution system to generate accurate low-level standards in whole air sampling canisters and acquire canister cleaning hardware/software upgrades to expand AMCD's current laboratory canister preparation capabilities. This upgrade will also update the computer operating system that the software controlling the current ACMD instrumentation for canister preparation are using that is Windows XP to Windows 10 to extend the utility of these systems. These laboratory upgrades are critically needed to support current and future AMCD research using EPA Method TO-15A for air toxic VOC, including ethylene oxide, measurements for source, near source, and ambient characterization efforts.

Minimum government specifications:

Static Dilutor:

The static dilutor will be capable of producing low concentration calibration standards in 1.4 or 6 L whole air canisters used by the CEMM AMCD VOC laboratory to conduct EPA Method TO-15A analysis. The following are minimum government specifications for this instrument:

- 6 channels are preinstalled
- Dedicated ceramic coated standard and sample dilution lines
- Entire sample flow path is passivated with inert ceramic coating
- Capable of 10,000x dilution factor
- Dilution controlled via flow control system and pressure sensor
- Instrument control software automatically calculates final dilution factor and generates dilution report based on pressure input
- System includes adaptor to inject liquid water into 1.4 L canisters with quick connect
- Computer with Windows 10 to operate instrument control software
- System includes lecture bottle stand for four calibration lecture bottles

Canister Oven upgrade:

The canister cleaning upgrades will expand and upgrade AMCD's current canister cleaning oven, the Entech Model 3100A Canister Cleaner, that meet the following minimum specifications:

- Upgrade includes temperature-controlled canister cleaning oven
- Two ceramic coated canister manifolds to clean at least 12 6 L canisters or at least 30 1.4 L canisters in one cleaning with each manifold; one manifold will replace the canister manifold in the current oven and second will be installed in new second oven with stainless steel plugs on each port
- At least 70 ceramic-coated quick connect female fittings that are compatible with Entech 1.4 Canister QT valves
- Electropolished stainless steel tubing to two Entech 3100A canister ovens in parallel and to connect ovens to Entech 3100A control instrument

- Entech 3100A instrument control software upgrade from Windows XP to Windows 10 operating system
- Computer with Windows 10 operating software that is compatible with instrument control software for 3100A including computer monitor

Deliverables:

The contractor will provide all of the hardware and software preconfigured according to the specifications listed above. The static dilution and canister cleaning system upgrades should be delivered to EPA facilities in Research Triangle Park, NC no more than 12 weeks from award date. The acquisition includes one day of installation and a full one-year standard warranty for parts and labors.