COMPLETE THIS FORM TO INITIATE SUPPLIER SCOUTING
MEPNN Supplier Scouting Opportunity Synopsis

☑ *The submitting organization (ex. 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

Autosampler and chromatography system

Item to be Scouted

_____15_____ **days**
Opportunities will be posted for 30 days unless specified

Please describe the item application/ the end use of item.* Provide the item number if applicable: (N95 Mask vs Protective Mask).
An existing Q Exactive Orbitrap Mass Spectrometer requires replacements to the existing EQUAN autosampler and ultimate 3000 RS and SD chromatographic pump systems. These replacement systems must include large volume injection capabilities up to 10 mL for the autosampler, while maintaining the potential for low volume injections down to 1-10 uL with automated swapping of syringes. In addition, the chromatgraphic systems must include a binary high pressure pump system and lower pressure quaternary system to operate in a UPLC and online solid phase extraction modes, respectively. These systems must be compatible with the software controlling the Orbitrap and an existing PC workstation running Chromeleon and Tracefinder sofware packages.

2022-154

Supplier Scouting Number (NIST MEP use)

334516

Scouting customer/product NAICS Code, if known

TECHNICAL INFORMATION:	1. Supplier Information	**a. Type of supplier being sought***
		☑ **Manufacturer** ☐ **Contract Manufacturer** ☐ **Distributor** ☐ **Other** _____
		b. Reason for scouting submission*
		☐ **2ⁿᵈ Supplier** ☐ **Price** ☐ **Re-shore** ☐ **Past supplier no longer available** ☐ **New Product Startup** ☑ **Other** Explore potential establishment of a US (domestic) source per Executive Order 14005._____
	2. Summary of Technical Specifications and Performance Requirements:	**a. Describe the manufacturing processes (elaborate to provide as much detail as possible).***
		Scientific equipment manufacturing processes. The items to be purchased are complex scientific instruments for sample aliquoting, processing, and chromatographic separation. Heaters, high pressure pumping systems, and many precision components are included.
		b. Provide dimensions / size / tolerances / performance specifications for the item.*
		Approximately 3' deep by x 5' length x 4' height. Performance specifications include a need for aliquoting volumes from 1 uL to 100 uL in low volume mode, up to 10 mL in large volume analysis mode for the autosampler system. The chromatography system must be capable of supporting flow rates of at least 2.5 mL/minute for the low pressure quaternary pump, and at least 0.5 mL/minute for the high pressure binary pump system. The system must be compatible with an existing Q Exactive Mass Spectrometer and Workstation running Tracefinder 5.1 and Chromeleon software packages.
		c. List required materials needed to make the product, including materials of product components.*

Product is a complex set of scientific devices including stainless steel, plastic, circuitry and power controllers and other components.

2. Summary of Technical Specifications and Performance Requirements cont:

d. Are there applicable certification requirements?* ☐ Yes   No
Please explain

e. Are there applicable regulations?* ☐ Yes   ☐ No
Please explain

f. Are there any other standards, requirements, etc.?* ☐ Yes   ☐ No
Please explain

g. Additional Comments: Is there other information that would impact the item's performance or usefulness? Please explain.

The items must be compatible with existing hardware components including a Thermo Electron Q-Exactive mass spectrometer and workstation running Chromeleon and Tracefinder software. Because of limitations of firmware and software compatibility and proprietary processes, this limits the scope to Thermo Electron components.

BUSINESS INFORMATION

3. Volume and Pricing

3a. Estimated potential business volume (i.e., # Units Per Day, Month, Year) *:

This is expected to be a single purchase event, so ~140k in a single instance.

b. Estimated target price / unit cost information (if unavailable explain) **:**

$140K for all components

4. Deliv

a. When is it needed by? (Immediate, 30 Days, 6 months, etc.)*

Immediate.

		b. Describe packaging requirements (i.e., individually/group pack█ing) *
		Laboratory Equipment and Devices Applicable Standards: International Electrotechnical Commission (EIC) Standards, International Organization for Standardization (ISO) Standards, and ANSI/AAMI Standards applicable packaging.
		c. Where will this item be shipped? *
		Cincinnati, OH ▬
5. Additional Comments:	**Is there other information you would like to include?**	
	- Vendor/company must be registered or will register in SAM.gov (https://sam.gov/content/home). - This inquiry does not guarantee award of a contract. - EPA requires a commercial off the shelf instrument that is immediately available that meets the technical specifications attached, in particular software, firmware, and hardware compatibility with existing installed components including a Q-Exactive Orbitrap Mass SpectrometerThe pffdsf. Vendors shall provide documentation that their proposed product meets or exceeds the technical specifications attached.	

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