

COMPLETE THIS FORM TO INITIATE SUPPLIER SCOUTING

MEPNN Supplier Scouting Opportunity Synopsis

- *The submitting entity 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. For instances where the submitting entity is an MEP Center submitting on behalf of a client, the MEP Center agrees to notify NIST MEP on behalf of their client. For instances where the submission is direct from federal/state agencies or is a private company, the submitting federal/state agency or private company entity agrees to notify NIST MEP. 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

		ntact with matches identified in report not yet begun, process in progress national process complete national matches identified in report will not occur within the next 6-months, process complete
Dia		
	ing S	
	be Scoute	
Please o	escribe th	he item application/ the end use of item.* Provide the item number if applicable: (N95 Mask vs Protective Mask).
to supp	ort nanofa	titute of Standards and Technology (NIST) seeks information on commercial vendors that are capable of providing one dicing saw and accessories abrication in the Center for Nanoscale Science and Technology (CNST), NIST's nanotechnology user facility. The dicing saw and accessories will d in the CNST NanoFab as a shared resource accessible to researchers from industry, academia, NIST, and other government agencies.
2022		
		g Number (NIST MEP use)
3345		
Scouting	_	er/product NAICS Code, if known
TECHNICA	1. Supplier	a. Type of supplier being sought* Manufacturer
=	ı ı	b. Reason for scouting submission*
TECHNICAL INFORMATION	Information	☐ 2 nd Supplier ☐ Price ☐ Re-shore ☐ Past supplier no longer available ☐ New Product Startup ☐ Other ☐ Other ☐ Description ☐ Past supplier no longer available ☐ Past supplier no longer ☐ Past supplier no long
	2. an	a. Describe the manufacturing processes (elaborate to provide as much detail as possible).*
	2. Summary of To and Performance	Purchased as a single unit
	ry of	b. Provide dimensions / size / tolerances / performance specifications for the item.*
	echnical Specification Requirements:	The NIST CNST NanoFab presently operates a dicing saw which is over 20 years old. This tool is quickly becoming obsolete, as well as problematic, owing to the difficulty of procuring spare parts and the rarity of knowledgeable service technicians. We therefore are seeking to procure a new, up to date, dicing saw. 1. DICING SAW GENERAL DESCRIPTION a. The tool shall be new (i.e. not refurbished). b. The tool shall be floor mounted (i.e. not table top). c. The tool shall accept wafers up to 300 mm in diameter. d. The tool shall be capable at a minimum of dicing standard wafers of silicon, various glasses, fused silica, quartz, sapphire, silicon carbide, lithium niobate, as well as pieces of wafers. e. The tool shall be equipped with a touchscreen-based graphical user interface (GUI). f. The GUI shall be user friendly and allow the user to create dicing recipes, stored for later reuse. g. The chuck shall hold the wafer/workpiece in place by vacuum suction. h. Spindle: single i. Size: 2" in diameter ii. Power: equal to or greater than 1.8 kW at 60,000 rpm. iii. Air bearing



		iv. DC brushless motor i. Vision system i. Digital camera ii. LED illumination with variable intensity iii. Vertical and oblique illumination iv. Digital zoom optics v. Auto focus vi. Pattern recognition system vii. Kerf check: manual and automatic viii. Wafer alignment: manual and automatic j. Dicing modes i. Manual and automatic ii. Chopping/plunge cut capable iii. Programmable entry, cutting and exit speeds k. Dressing station i. The tool shall be equipped with a dressing station to keep the blade square ii. Manual dressing mode iii. Automatic dressing mode during cutting I. Non-contact blade setup m. Monitoring i. Motor load monitoring displaying motor current ii. Broken blade detector iii. Blade wear monitoring n. Miscellaneous i. Database backup to USB drive ii. Quick change chuck iii. The vendor shall recommend specific types of dicing blades to cut various materials 2. ACCESSORIES a. Wafer mounter to mount wafers, up to 300 mm in diameter, on dicing tape b. Film frames for 200 mm and 300 mm wafers c. Blade flanges 3. TRAINING The vendor shall provide on-site operation and maintenance training following installation. 4. PROCESS SUPPORT The vendor shall demonstrate a high level of expertise in the dicing process and offer assistance in process development. c. List required materials needed to make the product, including materials of product components.* Purchased as a single unit.
	2.	d. Are there applicable certification requirements?* ☐ Yes ☒ No Please explain
	Summary of Technical Specifications and Performance Requirements cont:	e. Are there applicable regulations?* \(\text{ Yes } \text{ No } \) Please explain f. Are there any other standards, requirements, etc.?* \(\text{ Yes } \text{ No } \) Please explain g. Additional Comments: Is there other information that would impact the item's performance or usefulness? Please explain.
	ents	
BU	3. Volui Pricing	3a. Estimated potential business volume (i.e., # Units Per Day, Month, Year) *:
BUSINESS INFORMATION:	Volume and Pricing	1 unit.
ĮF OF	ď	b. Estimated target price / unit cost information (flexible and negotiable not accepted) *:
AWA!		\$200,000.00
TION:	4. De Re	a. When is it needed by? (Immediate, 30 Days, 6 months, etc.)*
	4. Delivery Requirem	6-10 months after contract awarded
	mε	b. Describe packaging requirements (i.e., individually/group packaging)*



		Flexible
		c. Where will this item be shipped?*
_		NIST, 100 Bureau Drive, Gaithersburg, MD 20899
	5. /	Is there other information you would like to include?
	Additional Comments:	
	iona	
	il Coi	
	mme	
	nts:	

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