

MEPNN Supplier Scouting Opportunity Synopsis

Item Information

Scouting Number	2023-105
Item to be Scouted	1320nm Entangled Photon Source
Days to be scouted	20
Description	One (1) Entangled Photon Source (EPS) that emits entangled photon pairs in the telecom O-band around 1320 nm. The EPS will assist NIST in achieving the goal of developing a measurement and testbed infrastructure to test and validate the performance of optical quantum components on the NIST Gaithersburg campus.
State item to be used in	Maryland

Contact Information

Email	gina.lee@nist.gov
First Name	Gina
Last Name	Lee
Department / Company / MEP Center	Department of Commerce
Bureau / Division / MEP Center Regional Office	National Institute of Standards and Technology (NIST)

Supplier Information

Type of supplier being sought	Manufacturer
Reason	2nd Supplier

Summary of technical specifications and performance requirements

Describe the manufacturing processes (elaborate to provide as much detail as possible)	N/A
Provide dimensions / size / tolerances / performance specifications for the item	Photon generation centered at 1320 ± 1 nm; The 1320 nm bi-photon bandwidth shall be 100 nm; Photon pair rate shall be >500 000 pairs/s at the source; Polarization-entanglement visibility shall be >98%; Photon-heralding probability shall be >30%; Photon Output Fibers shall be SMF28
List required materials needed to make the product, including materials of product components	N/A
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Additional Technical Comments	The contractor shall warrant the entire system in accordance with the Original Equipment Manufacturer's commercial item warranty terms and conditions, to include at minimum parts and labor, for a minimum of 12 months.

Volume and Pricing

Estimated potential business volume	1 unit
Estimated target price / unit cost information (if unavailable explain)	\$24,900

Delivery Requirements

When is it needed by?	Within 24 weeks of award/purchase.
Describe packaging requirements	Freight/Individually
Where will this item be shipped?	Gaithersburg, MD

Additional Comments

Is there other information you would like to include?	No.
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