

## CNM Grant Procurement Memo

Applies to:

- Federal purchases \$10,000 and above or,
- State purchases \$20,000 and above
- Purchases less than \$60,000

Funding source (choose one):

State

Federal

**Grant/Project Title:** Dept of Education-Quantum Learning Lab

**Project Director/PI:** Brian Rashap

**Grant number within Workday:** GR300429

**Description of goods or services:** Short description of what is needed

Second Quantum Optics Education setup for the Quantum Learning Lab. Includes upgrades that allow student to explore more quantum phenomenon.

**Benefit to grant and CNM:** Describe how/why this purchase will meet objectives of project.

Increase the number of students able to be trained from 3 to 6, as well as add on capabilities around quantum phenomenon.

**Estimated dollar amount:** \$48,247.76

**Rationale for method of procurement:** Describe how quotes were gathered

Direct Quotes from Vendors

**Contractor selection or rejection:** Name each vendor and indicate whether selected or rejected. This will document and justify the decision for procurement.

- VENDOR #1: ThorLabs
  - ThorLabs: ACCEPTED
  - Amount of Quote: \$48,247.76
  - Justification: Lowest Quote. Matches current setup and allows for expansion.
- VENDOR #2: QuTools
  - QuTools: REJECTED
  - Amount of Quote: \$95,000 (or \$65,000 without NV setup)
  - Justification: Move expensive and less compatible with learning objectives.
- VENDOR #3: Newport / MKS
  - Newport / MKS: REJECTED
  - Amount of Quote: \$10,093.
  - Justification: Does not provide the capabilities needed for the Quantum Technician Bootcamp. Newport/MKS will not make it customized to meet our needs.



## VENDOR # 2

qutools GmbH : Kistlerhofstr. 70 Geb 88 : 81379 Munich

Brian Rashap  
 IoT Educator  
 Central New Mexico Community College  
 United States

qutools GmbH  
 Kistlerhofstr. 70 Geb. 88, 81379 Munich, Germany  
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 T +49 (89) 321 649 59-0, F +49 (89) 321 649 59-9  
Website: www.qutools.com  
 :  
Date: 28.05.2024  
Processed by: Nico Klein  
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### Offer No. A\_20240528\_NK\_01

Pos	Quantity	Description	Unit Price (EUR)	Total Price (EUR)
1	1	quEDU Control Unit Including: - APDs and Photodiode - Time Tagging and Coincidence Logic - Data Acquisition and Readout	20.000,00	20.000,00
2	1	quEDU-ED Entangled Photon Pair Source Experiment Board Including: - Pump Laser with laser driver - SPDC source - Alignment Accessories - Fiber Coupling	20.000,00	20.000,00
3	1	quEDU-HOM Hong-Ou-Mandel AddOn for quEDU-ED 2 photon interference experiment kit	15.000,00	15.000,00
4	1	quEDU-TOM Tomography AddOn for quEDU-ED Experiment kit for 1- and 2-qubit tomography	10.000,00	10.000,00
5	1	quEDU-NV NV center setup Experiment Board Including: - Microdiamond with NV center ensemble - Green Pump laser - Microwave source - 3D magnetic field coils - motorized alignment stages - Pulse control - Fiber coupling	30.000,00	30.000,00
Net amount				95.000,00
Tax free (§4, Nr 1a UStG)				
Total value				95.000,00

## VENDOR #3: Newport / MKS

Dear Brian,

We appreciate your interest in Newport, the Photonics Solutions Division of MKS Instruments, Inc. I am contacting you regarding your inquiry for the educational optics kit.

I understand you are interested in purchasing a kit that will allow for a wide range of different optical experiments.

Here we offer the OEK-STD Educational Kit: <https://www.newport.com/p/OEK-STD>

Unfortunately we do not offer any custom options for this kit but if you need help selecting additional optics or opto-mechanics we are happy to assist.

If you have any other questions or comments or interested in a quotation please let us know.

Your case number for future reference is 00822673.

Thank you,

**Steven Fontanini**  
**Sr Inside Sales Engineer**  
**Photonics Solutions Division**  
**MKS Instruments, Inc.**  
Phone : +1.720.459.9030


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### Educational Kit, Projects in Optics, Includes Laser, Imperial

MODEL: OEK-STD

\$10,093 In Stock

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