

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: \$50.933

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: \$50,933
 - 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 #1: ThorLabs

THORLABS Inc.
43 Sparta Avenue • Newton, NJ 07860 • USA

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THORLABS Inc.
43 Sparta Avenue • Newton, NJ 07860 • USA

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Quotation TQ0597605

Bill to
Central New Mexico Community College
Accounts Payable
P.O. Box 4566
Albuquerque, NM 87196
United States

Ship to
Central New Mexico Community College
Suite 3100
101 Broadway NE
Albuquerque, NM 87102
United States
Attention: Brian Rashap
Phone: 5056506352
Email: brashap@cnm.edu

Date: 5/29/2025
Expiration Date: 6/27/2025
Number: TQ0597605-2
Sales Contact: Patricia Abenilla
Mode of Delivery: LTL Freight
Terms of Delivery: Free Carrier
Payment Terms: Net 30 days
Invoice Account: 287440

| Item # / Description | Quantity | Unit Price | Disc. % | Disc. Price | Amount | Availability |
|---|----------|------------|---------|-------------|-----------|--------------|
| 1 EDU-QOP1 Quantum Optics Kit, Imperial Unit Net Weight: 25.9569kg Commodity code: 9023.00.0000 Country of Origin: DEU REACH: SVHC > 0.1% Lead RoHS: Exempt - Annex III - 6(a) RoHS: Exempt - Annex III - 6(c) RoHS: Exempt - Annex III - 7(a) RoHS: Exempt - Annex III - 7(c)-H | 1.00 | 35,744.66 | 10.00 | 32,170.21 | 32,170.21 | Available |
| 2 EDU-QOPa1 Polarization-entanglement add-on, Imperial Unit Net Weight: 2.5000kg Commodity code: 9023.00.0000 Country of Origin: DEU REACH: SVHC Free RoHS: EU 2015/863 Commodity Code MJC: 90230010 | 3.00 | 4,800.18 | 10.00 | 4,320.16 | 12,960.48 | Available |
| 3 B2448FX Breadboard, 24" x 48" x 2.28" Breadboard, 24" x 48" x 2.28" 129 x 69 x 27 cm @ 50 kg Unit Net Weight: 64.0000kg Commodity code: 9031.90.9160 Country of Origin: GBR REACH: SVHC Free RoHS: Compliant | 1.00 | 1,149.50 | 10.00 | 1,034.55 | 1,034.55 | Available |

| Item # / Description | Quantity | Unit Price | Disc. % | Disc. Price | Amount | Availability |
|--|----------|------------|---------|-------------|----------|--------------|
| 4 SM1D120 Adjustable 1" Iris Unit Net Weight: 0.0218kg Commodity code: 9033.00.9000 Country of Origin: DEU REACH: SVHC > 0.1% Lead RoHS: Exempt - Annex III - 6(c) | 3.00 | 83.58 | 10.00 | 75.22 | 225.66 | Available |
| 5 ESK33-A Ø1" N-BK7 Plano/BI Convexcave +/- Meniscus Kit, -A Coated Unit Net Weight: 11.9269kg Commodity code: 9001.90.4000 Country of Origin: CHN REACH: SVHC Free RoHS: Compliant | 1.00 | 2,118.89 | 10.00 | 1,907.00 | 1,907.00 | Available |
| 6 ESK33-B Ø1" N-BK7 Plano/BI Convexcave +/- Meniscus Kit, -B Coated Unit Net Weight: 11.7811kg Commodity code: 9001.90.4000 Country of Origin: CHN | 1.00 | 2,118.89 | 10.00 | 1,907.00 | 1,907.00 | Available |
| 7 AB90A Angle Bracket with 1/4-20 Tapped Holes Unit Net Weight: 0.0691kg Commodity code: 9031.90.5160 Country of Origin: USA REACH: SVHC Free RoHS: Compliant | 5.00 | 32.72 | 10.00 | 29.45 | 147.25 | Available |
| 8 UB2P Universal Base Plate Unit Net Weight: 0.0764kg Commodity code: 9033.00.9000 Country of Origin: USA REACH: SVHC Free | 5.00 | 45.44 | 10.00 | 40.90 | 204.50 | Available |
| 9 BAZL MOUNTING BASE, 2"x4"x3/8" MOUNTING BASE, 2"x4"x3/8" Unit Net Weight: 0.0559kg Commodity code: 9033.00.9000 Country of Origin: USA REACH: SVHC Free RoHS: Compliant | 5.00 | 32.39 | 10.00 | 29.15 | 145.75 | Available |

Phone: 973-300-3000 • Fax: 973-300-3600 • Email: sales@thorlabs.com

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THORLABS Inc.
43 Sparta Avenue • Newton, NJ 07860 • USA

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| | |
|---------------------|----------------------|
| Subtotal | 50,702.40 |
| Shipping & Handling | 231.12 |
| Sales Tax | 0.00 |
| Grand Total | 50,933.52 USD |

Please note that any changes may affect your pricing. All prices are subject to increase or to the imposition of a surcharge to cover all or a portion of the cost of new tariffs or other charges imposed by the government after the date hereof.

Acceptance of purchase order is conditional on Thorlabs' Terms and Conditions (www.thorlabs.com) which shall control and supersede any other terms and conditions. US, UK, and EU Export Laws and Regulations may apply to the sale, destination and end use of these items and any related technical data. Any diversion contrary to US and European export control regulations is strictly prohibited: www.bis.doc.gov. Additional compliance information can be found under the supporting documents for each item appearing on our website. Title passes to the buyer at the point of shipment from Thorlabs facility.

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
 :
 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
E-Mail: Nico.Klein@qutools.com

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

☐ Compare



Product Series Overview

[Projects in Optics](#)