**CNM Grant Procurement Memo**

Applies to:

Funding source (choose one):

~~State~~ **Federal X**

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

**Grant/Project Title**: Dept of Ed Quantum Learning Lab

**Project Director/PI:** Brian Rashap

**Grant number within Workday**: GR300429

**Description of goods or services**: Lab kit to teach Optical Microscopy

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

Photonics is a big portion of the Quantum workforce needs. Developing a lab module around optical microscopy is a critical need area within the photonics curriculum.

**Estimated dollar amount:** $10,000

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

Web search of optical component suppliers.

**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
  + Selected or Rejected: Rejected
  + Amount of Quote: $10,088
  + Justification: The cost of all three quotes is in the same ballpark. The ThorLabs educational kit comes with a full set of base lessons that will greatly reduce the work needed at CNM to develop the lesson plans and assignments for the Quantum Technician students. This kit includes a full breadth of equipment and potential lessons, including the important spectroscopy equipment (which would have to be purchased separately to supplement any of the below kits). This kit is fully US make (Newton NJ).
* VENDOR #2: MKS
  + Selected or Rejected: Rejected
  + Amount of Quote: $10,093 (plus $2695 for add on spectrometer)
  + Justification: The MKS education kit is inclusive of lesson plans, but not as extensive as the ThorLabs kit. There are additional equipment purchases needed to fill out the scope of lessons planned for these modules in the Quantum Technician Program. Likely made in US, but not confirmed.
* VENDOR #3
  + Selected or Rejected: Rejected
  + Amount of Quote: $9,900 (plus $2695 for add on spectrometer)
  + Justification: While slightly less expensive than the selected system, the Edmunds kit does not come with a suite of base lesson and would require extensive work by the CNM/CNMI faculty to develop the collateral content. Also, would require the purchase of an additional spectroscopy system from a different vendor. Likely made in US, but not confirmed.

**Thorlabs Optical Microscopy Education Kit**

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**MKS Educational Kit**

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**Edmunds Lab Starter Kit**

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**Edmunds Spectrometer add on to Vendor 2 and 3 ($2695)**

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