



DEPARTMENT OF THE ARMY  
UNITED STATES MILITARY ACADEMY  
West Point, New York 10996

REPLY TO  
ATTENTION OF

MADN-EE-PR

22 March 2023

MEMORANDUM FOR MICC-Fort Drum

SUBJECT: Brand Name Exact Match Memo for Unison Buy **WestPointPRCKAI0034** of  
Toptica 480nm Laser System

1. The purpose of this memorandum is to outline the requirements for a 480nm Stabilized Laser System to be used in the Photonics Research Center (PRC) in Building 753. As part of the Quantum Information Science research program in the PRC, we require an additional laser tunable to 480nm that is compatible with an existing laser system at 780nm. The Toptica family of lasers (and current laser system in the PRC at 780nm, contract #W911S222P0919) share the same user interface and control electronics. While it is crucial to ensure equipment compatibility with the existing Toptica laser system, no specific vendor is required as long as they meet the requirements of this memorandum.
2. The requested Toptica laser system is the only laser that will meet the government's requirements for commonality of capabilities and operation.
3. For the reasons listed above, the Photonics Research Center requests approval of a brand name or exact match purchase of the Toptica DLC Rydberg Rb II Laser System with additional options for laser stabilization, beam shaping, and wavelength locking.
4. If there are any questions, please contact the Contracting Officer at [usarmy.drum.acc-micc.mbx.micc@army.mil](mailto:usarmy.drum.acc-micc.mbx.micc@army.mil).

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Kirk A. Ingold