



## WRITTEN INQUIRIES AND RESPONSES TO THE FOLLOWING DIRECT QUOTE (DQ)

**Bid Number: DQ25010 Optical Atomic Clock System DQ**

Purchasing Agent: Elevate Quantum  
E-Mail: RFQ@ElevateQuantum.org

**BID DUE DATE AND TIME: 7, April, 2025, 5:00 PM (Mountain Time)**

SCHEDULE OF ACTIVITIES	DATE	TIME (MT)
DQ Publication	14, March, 2025	
Written Inquiry Deadline	24, March, 2025	3:00 PM
Publication of Responses to Written Inquiries	No later than 31, March, 2025	5:00 PM
DQ Submission Deadline	7, April, 2025	5:00 PM

### **QUESTIONS:**

The following questions have been submitted from vendors related to this DQ and are being provided with responses to all interested parties

- 1. How important is the form factor (Rack Units) for the Elevate Quantum? Toptica DFC comb and clock laser reference, as it contains complete electronics and high-end performance have naturally higher RU than the desired requirement.**
  - a. We are flexible on the form factor of this system, and it does not have to be rack mountable. We plan to locate it in a secure room in our lab and run fibers from it to individual lab bays. Please included details around the form factor, physical size and any other related requirements in your bid.
- 2. When it comes to power consumption, if the system requires more power, how significant is that in your vendor selection process? Additionally, are you considering applications beyond quantum computing that demand low power consumption?**
  - a. The power consumption requirement is not a hard specification. If the system needs more power please specify the amount (along with any voltage and current requirements) in your response. This allows us to make sure that the system is compatible with any facility requirements if it has very high power needs.
- 3. We've observed that many of the desired specifications align closely with the frequency comb and optical reference offerings from other vendors. We'd love to understand whether your priority for this bid is achieving higher performance specifications or favoring a more cost-effective and compact system.**

- a. The specifications that we have published are a starting point for us to be able to evaluate offerings from different vendors. We understand that each vendor will have a slightly different system with different benefits to the end user as well as tradeoffs on performance, size, price etc. Cost is always an important driver, and we have a budget of \$230k for this system. As with the other criteria, its important for us to understand details and any tradeoffs on cost and performance so please include these details in your bid so we can evaluate it appropriately.

**4. Do you have any specific timeline for delivery that should be targeted.**

- a. We plan to send a PO to the awardee soon after the DQ is awarded. We're targeting by the end of April. We will provide a down payment at this time but we will need to schedule the delivery of the system for December 2025 or January 2026 to align with the construction schedule of our Lab building.