# Sweden-Gothenburg: Laboratory, optical and precision equipments (excl. glasses) 2023/S 139-443318

**Contract notice** 

Supplies

#### Legal Basis:

Directive 2014/24/EU

#### Section I: Contracting authority

#### I.1) Name and addresses

Official name: Chalmers Tekniska Högskola Aktiebolag National registration number: 556479-5598 Postal address: Arvid Hedvalls backe 4 Town: Göteborg NUTS code: SE232 Västra Götalands län Postal code: 412 96 Country: Sweden Contact person: Lambros Andreasson E-mail: Internet address(es):

Main address:

#### I.3) Communication

The procurement documents are available for unrestricted and full direct access Additional information can be obtained from the abovementioned address Tenders or requests to participate must be submitted electronically

## 1.4) Type of the contracting authority

Other type: University

#### I.5) Main activity Education

#### Section II: Object

- II.1) Scope of the procurement
- II.1.1) Title:

Pulse quantum control system Reference number: C 2023-0842

## II.1.2) Main CPV code 38000000 Laboratory, optical and precision equipments (excl. glasses)

### II.1.3) Type of contract Supplies

#### II.1.4) Short description:

This procurement is made on behalf of the Quantum Technology Laboratory (QTL) at the Microtechnology and Nanoscience Department at the Chalmers University of Technology.

The department is now moving towards new fundamental physics experiments within the field of superconducting quantum circuits and superconducting microscopic objects, that require a state-of-the-art pulsed quantum control system

## Scope

This procurement covers the purchase of 2 Pulsed and Continuous Wave Quantum Control Systems (PCQCS) and associated auxiliaries.

This procurement is funded by an EU grant, due to these circumstances the invoice to Chalmers regarding the PCQCS#1 system must not be dated earlier than January 1st, 2024, nor can the PCQCS#1 system be delivered to Chalmers before this date. No upfront payment is accepted for this system.

The PCQCS#2 system is not laden with the same restrictions and can be delivered and invoiced in 2023.

## II.1.5) Estimated total value

## II.1.6) Information about lots

This contract is divided into lots: no

## II.2) Description

## II.2.3) Place of performance

NUTS code: SE232 Västra Götalands län Main site or place of performance: Göteborg

## II.2.4) Description of the procurement:

This procurement is made on behalf of the Quantum Technology Laboratory (QTL) at the Microtechnology and Nanoscience Department at the Chalmers University of Technology.

The department is now moving towards new fundamental physics experiments within the field of superconducting quantum circuits and superconducting microscopic objects, that require a state-of-the-art pulsed quantum control system

Scope

This procurement covers the purchase of 2 Pulsed and Continuous Wave Quantum Control Systems (PCQCS) and associated auxiliaries. The PCQCS and the auxiliaries are referred to as PCQCS#1 and PCQCS#2 or the system throughout the tender.

Important notice, the systems differ in technical requirements, please see Appendix 1 for more details. This procurement is funded by an EU grant, due to these circumstances the invoice to Chalmers regarding the PCQCS#1 system must not be dated earlier than January 1st, 2024, nor can the PCQCS#1 system be delivered to Chalmers before this date. No upfront payment is accepted for this system.

The PCQCS#2 system is not laden with the same restrictions and can be delivered and invoiced in 2023. Purpose of procurement

At QTL, we work with superconducting quantum circuits and superconducting microscopic objects which operate at milliKelvin temperatures and at microwave frequencies. We control them using highly precise control electronics which generate synchronized microwave pulses and measurement acquisitions, called pulsed quantum control systems. They are integrated with on-board field programmable gate arrays (FPGA) with memory and programmable microcontrollers to perform and store large measurements. We are now moving towards new fundamental physics experiments, with the support of ERC grants, that require state-of-the-art pulsed quantum control systems. We require not only stringent technical specifications but also an extended ability to customize FPGA's signal processing for novel measurements. There is no equipment in our laboratories that can conduct such experiments. Therefore, we are carrying out this procurement procedure

II.2.5)	Award criteria Price is not the only award criterion and all criteria are stated only in the procurement documents
II.2.6)	Estimated value
II.2.7)	Duration of the contract, framework agreement or dynamic purchasing system Duration in months: 12 This contract is subject to renewal: no
II.2.10)	Information about variants Variants will be accepted: no
II.2.11)	Information about options Options: no
II.2.13)	Information about European Union funds The procurement is related to a project and/or programme financed by European Union funds: no
II.2.14)	Additional information
Section IV: Procedure	
IV.1)	Description
IV.1.1)	Type of procedure Open procedure
IV.1.3)	Information about a framework agreement or a dynamic purchasing system
IV.1.8)	Information about the Government Procurement Agreement (GPA)
	The procurement is covered by the Government Procurement Agreement: yes
IV.2)	Administrative information
IV.2.2)	Time limit for receipt of tenders or requests to participate
	Date: 14/08/2023
	Local time: 23:59
IV.2.3)	Estimated date of dispatch of invitations to tender or to participate to selected candidates
IV.2.4)	Languages in which tenders or requests to participate may be submitted: English
IV.2.6)	Minimum time frame during which the tenderer must maintain the tender Tender must be valid until: 13/11/2023
IV.2.7)	Conditions for opening of tenders Date: 15/08/2023 Local time: 00:00
Section VI: Complementary information	
VI.1)	Information about recurrence This is a recurrent procurement: no
VI.3)	Additional information: Mercell notice:
VI.4)	Procedures for review
ý VI.4.1)	Review body
•+)	Official name: Förvaltningsrätten i Göteborg Town: Göteborg Country: Sweden

VI.5) Date of dispatch of this notice: 17/07/2023