

### SOLE SOURCE CERTIFICATE AND POSTING NOTICE

(Greater than \$150,000)

A sole source procurement is when you make a request to purchase product(s) and/or service(s) without competition when competition is otherwise required. This means that product/service is unique and that the supplier is the only supplier that can provide the product or service. In accordance with the authority granted under applicable Florida law and UCF Regulation 7.130, the following documentation is submitted in support of this request.

This form and related documentation shall be submitted through Workday Help using case type Waivers and Sole Source. Please do not attach to a requisition or send via email for review and approval.

WD case subject title should have common structure for easy tracking, to include:

- Exemption type (Sole Source)
- Supplier name
- Purchase amount

The completed sole source must be approved in the following order. Please be sure to obtain all required signatures before submitting the form to Procurement Services.

- PI/Researcher/Director/Chair
- President/Vice President/Dean
- Procurement Specialist
- Procurement Services Manager or Associate Director
- Assistant Vice President for Tax, Payables & Procurement, who will review and provide a recommendation to approve or disapprove the sole source to:
- Chief Financial Officer, who will either directly approve or disapprove the sole source, or forward it to the Provost and Executive Vice President for goods/services related to academia for input prior to making the final decision.

Once the completed sole source is received, Procurement Services in collaboration with kNEXT reviews the documentation provided and determines whether the sole source is valid or if there are additional suppliers that may be able to provide the requested product or service. The sole source review and approval process varies based on the nature of the product/service being requested and the information provided in the requestor's justification, among other factors, so please keep this in mind when submitting the form.

Contingent upon the approval of all the officers/individuals listed, the sole source shall be posted on the UCF Procurement Services website for seventy-two (72) hours. Upon expiration of said posting period, Procurement Services will process a purchase order upon receipt of the requisition.

The usual bidding process shall be conducted if sole source approval is not granted.

Р	ART I: DEPARTMENT AN	D SUPPLIER INFORMATION	
Department Name: EC	E	Contact & Phone: Wayesh Qaron	ny; 407823121
		Product/Service Cost: \$209,00	00
		✓ One Time PurchaseTerm Co	ntract:
		Multiple Purchases Duration	
Company Name: PAS	QAL	Email: orders@pasqal.com	า
Contact Person: Rich		Title: VP - Cold and Vacuum Engine	
Product and/or Service:	Closed-cycle Cryost	tat for Quantum Device Exp	eriment
Only justifications subm All the listed points MUS	nitted on this form and in t ST be fully answered on the to submit justification a	USTIFICATION (see pages 4-5) the below format will be reviewed ne following pages and any additions outlined in the format below will	onal attached
	PART III: SOLE SOUR	CE CERTIFICATIONS	
requirement(s service. I furth my knowledge B. I, the undersig named supplie purchase.	)/specification(s), and this is er certify that the informatio e and belief and would withs gned, certify that I and/or th	ly product or service that can reasor is the only supplier who can provide in contained herein is true and correctand any audit or supplier protest. It is user do not have a financial interest unaware of any conflict of interest.	the product or at to the best of est in the above
Wayesh Qarony  Digitally signed by Wayesh Qarony  Date: 2024.10.24 16:56:59 -04'00'	Wayesh Qarony		10/24/2024
Signature	Printed Name and Title (	PI/Researcher/Director/Chair)	Date
michaelg Date: 2024.11.12 14:16:47	Michael Georgiopo	ulos	
Signature		(President/Vice President/Dean) Is from absent approvers are acceptable)	Date
		stification and support a sole source nay be documented and supported v	
See below Email for ap	pproval 		
Signature	Printed Name and Titl	e (Procurement Specialist)	Date
See below Email for ap	proval		
Signature	Printed Name and Tit	le es Manager or Associate Director)	Date
0 1 1 5 ".6			
See below Email for ap	proval 		
Signature	Printed Name and Tit (Asst. Vice President	le for Tax, Payables & Procurement)	Date

See below Email for approval						
Signature	Printed Name and Title (Chief Financial Officer)	Date				

POSTING NOTICE							
12/6/2024 at 11:00am	12/9/2024 at 11:00am	2503	Trinh Nguyen				
Date/Time Posted	Posting End Date	UCF Control No.	Procurement Specialist				

#### **SOLE SOURCE JUSTIFICATION**

Please answer the questions below and attach additional documentation if needed.

1. Describe the product(s) and/or service(s) and anticipated use thereof in layman's language.

This is a cryogenic chamber and associated components where semiconductor and superconductor photonic devices will be kept under very low temperature for quantum optics experiments.

2. Describe the required specifications or requirements and why are they essential to the accomplishment of your work.

This system has two thermal stages (1.0 Kelvin and 3.0 Kelvin). 1.0 Kelvin thermal stage will be dedicatedly occupied for cooling the superconductor-based devices, while 3 Kelvin stage will be used for conducting quantum experiments.

Provide the names of other suppliers, products and/or services that you have investigated and explain why they do not meet the required specifications or requirements. It may be helpful to present your information in a table like the one below.

Required Specifications	Supplier 1	Supplier 2	Supplier 3	Supplier 4
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N

There are two other suppliers in the market: Attocube and Montana. None of them can provide a closed-cyle cryostat with two separate thermal stages, where we can keep those separately. Only PASQAL can provide my required customized system.

3. State in detail why only this and no other product(s)/service(s) will satisfy the department's requirements. Description may include unique features, compatibility, specifications, availability, delivery time frame etc. (For example, please list the features or special conditions that are unique and only available from one supplier. Note: Price is not a valid reason.)

I require a cryogenic system with two different thermal stages (1.0 Kelvin and 3.0 Kelvin). This product has two separate large chambers, where one can be used for the Quantum experiments and other can be used for the superconductor devices. Large chamber is critical as we need to put superconductor sensor-related electronics and wiring inside the chamber. This is unique that PASQAL can customize for us and make such system.

However, other suppliers such as Montana and AttoCube can not provide two thermal stages. Also their chambers are sufficient for keeping superconductor electronics as the spacing is very limited.

4. Are there resellers or distributors? If yes, please list names and contact information.
No
5. Will this purchase obligate UCF to this vendor for future purchases such as maintenance, licensing, or continuing need? Yes _✓ No
If yes, please provide details regarding future obligations and/or needs to include number of years and total spending amount of obligations:
6. What efforts have been made to obtain the best pricing available? Please provide an explanation to support the belief that the price is fair and reasonable.
First of all, the system is unique which can not be customized by any other suppliers. Even this unique system with two separate thermal stages, the product price is lower than the products with a single thermal stage from other vendors such as Montana and Attocube.
Then I further negotiated the prize a couple of times. The current quotation is a negotiated one which can be seen from the quotation.

 From:
 Gerald Hector

 To:
 Joel Levenso

Cc: Brian Sargent; Trinh Nguyen; Nellie Nido
Subject: RE: C0108366; New Sole order for Dr. Qarony
Date: Thursday, December 5, 2024 6:10:23 PM

ttachments: image005.p

Joel:

I am in support of this sole source request.

Regards,

Gerald L. Hector, CPA Senior Vice President Administration and Finance University of Central Florida 4635 Andromeda Loop N MH384 Orlando, FL 32816 Tel: (407) 823-1063

Email: gerald.hector@ucf.edu



From: Joel Levenson < Joel.Levenson@ucf.edu>
Sent: Thursday, December 5, 2024 9:46 AM
To: Gerald Hector < Gerald. Hector@ucf.edu>

Cc: Brian Sargent <Brian.Sargent@ucf.edu>; Trinh Nguyen <Trinh.Nguyen@ucf.edu>; Nellie Nido <nellie.nido@ucf.edu>

Subject: FW: C0108366: New Sole order for Dr. Qarony

Good morning Gerald,

I also support this sole source. The PI has listed requirements and compared with other providers, which do not meet the needs of the PI. Additionally, another institution has awarded a sole source purchase for this piece of equipment as well.

Please review and if you agree, reply all to this email and indicate as such. If you have additional questions, let me know.

From: Brian Sargent < Brian.Sargent@ucf.edu>
Sent: Wednesday, December 4, 2024 2:33 PM
To: Joel Levenson < Joel Levenson@ucf.edu>

Cc: Trinh Nguyen < Trinh.Nguyen@ucf.edu>; Nellie Nido < nellie.nido@ucf.edu>

Subject: FW: C0108366:New Sole order for Dr. Qarony

Good afternoon Joel,

I also support this sole source submitted by the College of Engineering and Computer Science for a Closed-Cycle Cryostat. There are only 3 firms in the marketplace who sell closed cycle cryogenic chambers but only PASQAL's system meets all the requirements.

Additionally, search of GovSpendidentified a sole source that was approved by the University of Albany for the same equipment.

Please approve/disapprove and let me know if you have any questions.

Regards, -Brian

From: Trinh Nguyen <a href="mailto:Irinh.Nguyen@ucf.edu">Irinh.Nguyen@ucf.edu</a>
Sent: Wednesday, December 4, 2024 1:35 PM
To: Brian Sargent <a href="mailto:Rrian.Sargent@ucf.edu">Rrian.Sargent@ucf.edu</a>
Cc: Nellie Nido <a href="mailto:Nguyen@ucf.edu">Nguyen@ucf.edu</a>

Subject: FW: C0108366:New Sole order for Dr. Qarony

Hi Brian,

I have reviewed the attached sole source and can support it for the following reasons. Can you please also review to see if you agree or not.

Vendor: PASQAL

Product: Closed-Cycle Cryostat Optidry 250 for Quantum Device Experiment

Total Amount: \$209,000

Dept: ECE

Requirement: The department wants to purchase a cryogenic system from PASQAL with two different thermal stages and two separate large chambers to use, one for Quantum experiments and the other one for superconductor devices. The required specifications are listed below.

Research Conducted: The PI noted that there are two other suppliers, Attocube and Montana, in the market for the closed-cycle cryogenic chamber besides PASQAL. However, only the product from PASOAL can meet the below specifications.

Specifications	PASQAL	Attocube	Montana
A closed-cycle cryostat with	Yes	No	No
two separate thermal			
stages: 1.0 Kelvin and 3.0			
Kelvin			

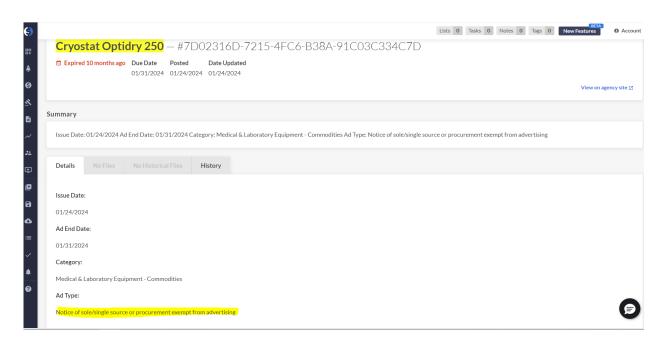
Two separate large	Yes	No	No
chambers where one will be			
used for Quantum			
experiment and the other			
one for superconductor			
devices.			

Attocube and Montana cannot provide the required two thermal stages and the spacing of their chambers are limited. The large chamber is critical as the department needs to put superconductors, sensor-related electronics and wiring

inside the chamber. There are no resellers/distributors for this product.

Price is fair and reasonable: The price is deemed fair and reasonable given that the PASQAL product is the only one that can meet the above requirements. In addition, the PI noted that the pricing from PASQAL is lower than the single thermal stage vendors. The PI negotiated the total cost.

GovSpend: In GovSpend under the Bids and RFPs search, the below single/sole source posting came up for the PASQAL, Cryostat Optidry 250, product from The University of Albany, for the same chamber that the above department is purchasing (See attached New York State Contract posting).



Thanks, Trinh

From: Brian Sargent < Brian.Sargent@ucf.edu > Sent: Thursday, November 21, 2024 9:11 AM

To: Reyner Martinez <reyner.martinez@ucf.edu></reyner.martinez@ucf.edu>	
Cc: Trinh Nguyen < Trinh.Nguyen@ucf.edu>	
Subject: C0108366:New Sole order for Dr. Qarony	
Good morning Reyner,	
Trinh Nguyen has been assigned to review this sole source	e. She will reach out with any questions
Regards,	
Brian	
Diran.	



NYS' official source of contracting opportunities Bringing business and government together

#### Contracting Opportunity

\* \* \* This ad is closed and is in the archives \* \* \*

**Title:** Cryostat Optidry 250

**Agency:** State University of New York (SUNY)

**Division:** University at Albany

**CR Number:** 2105888

Contract Term: 02/16/2024-06/30/2024

**Date of Issue:** 01/24/2024 **Ad End Date:** 01/31/2024

County(ies): All NYS counties

Classification: Medical & Laboratory Equipment - Commodities

**Opportunity** Notice of sole/single source or procurement exempt from advertising

Type:

Entered By: John Pomeroy

**Description:** Consistent with Chapter 862 of the Laws of 1990, The University at Albany

requested an exemption from initially publishing this contract opportunity in the NYS Contract Reporter. In accordance with Section 144(2)(e) of the Economic

Development Law, the Office of the State Comptroller has granted this

exemption.

Reason for advertising exemption: Single Source

Award recipient: Pasqal

Any questions or comments regarding this notice of sole-source, single-source, or procurement otherwise exempt from advertising in the NYS Contract Reporter should be directed to the contact person listed for the contracting agency or

public authority.

#### **Contact Information**

**Primary contact:** State University of New York (SUNY)

University at Albany Procurement Services

John Pomeroy

Purchasing Associate 1400 Washington Ave.

MSC Room 302 Albany, NY 12222 United States Ph: 518-437-4579

jdpomeroy@albany.edu

# **Bid Results**

Bid Results have not been entered

# **Awards**

Awards have not been entered

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#### **Proposal PR2410-0334**

Date of proposal : 10/10/2024 Validity ending date : 10/25/2024 Customer Code : CU2407-00023

From

**PASQAL** 

Name: Richard Hostein 7 rue Léonard de Vinci 91300 Massy France

Phone: +33 9 54 99 11 19 Email: orders@pasqal.com Web: https://www.pasqal.com/ То

**ECE, University of Central Florida** 

Doctor Wayesh Qarony 4328 Scorpius St Orlando, FL 32816 United States

Incoterm: DAP - Orlando

Amount in US Dollars currency

Sales tax	U.P. (net)	Qty	Disc.	Total (excl. tax)
0%	165,825.00	1	10%	149,242.50
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<i>'</i>				
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e c c c \		0% 165,825.00  e d d d V	0% 165,825.00 1  e e d d d v v	0% 165,825.00 1 10% ee dd dd yy ))





Date of proposal : 10/10/2024 Validity ending date : 10/25/2024 Customer Code : CU2407-00023

00 V 07 005 DO Wins Line 04	00/	0.000.00	4		0.000.00
00-V-07-005 - DC Wire Line 24 - copper DC wire line 24 pins: -300K connector and cable mounted one side, pig tail other side - 12 copper twisted pairs woven loom (AWG 38 Insulator polyester, 2.3 ohms/m) - 4 K connector, 2 rows socket stip numbering support; pitch 2mm adapted to standard Attocube piezo connector	0%	2,200.00	1		2,200.00
00-V-07-305 - Coaxial line with SMA CuBe-SS 1,2mm RF line for Optidry 250 composed of :	0%	1,980.00	4	40%	4,752.00
- Rigid coaxial cable 2,19mm diameter, CuBe/Silver plated core, CuBe outer conductor, 50cm, 300K->50K					
- Semi-rigid cable 1.19mm diameter, Cu/Sn core, Cu outer conductor, 70cm, 4K->4K					
Frequency : DC to 20GHz					
Insertion losses (typical) @300K : 1.0 dB/m @0.5 GHz, 1.4 dB/m @ 1 GHz, 3.1 dB/m @ 5 GHz, 4.4 dB/m @10 GHz, 6.3 dB/m @20 GHz					
Insertion losses (typical) @4K : 0.3 dB/m @0.5 GHz, 0.5 dB/m @ 1 GHz, 1.1 dB/m @ 5 GHz, 1.5 dB/m @10 GHz, 2.2 dB/m @20 GHz					
Connectors : SMA at both ends					
Non magnetic					
OL-PF-05-000 - Option 1,5K He4 extra loop Extra loop He4 for 1,5K base temp system including: - Gas Handling system with a 30L He4 tank, circulation pump, LN2 trap and Ln2 dewar (15L) - Cold finger and 1,5K Plate (~diam 20mm) - 4K radiation Shield	0%	41,800.00	1		41,800.00
Base temperature <1,3K Cooling power available 10mW@1,5K					
Important note: - We propose to include a cold plate inside the Cryocase with a temperature <2K with threaded holes in order to install SNSPD detectors.					
<ul> <li>A plate (70*30mm) at 40K is available for the client in order to mount SNSPD electronic</li> <li>Upon request, electrical feedthrough at 300K can be provided.</li> <li>For optical fiber, a KF25 port will be available at 300K</li> </ul>					
Pumping group Option :					
Flexy TPS-TV74FS/IDP3 NW40KF					
<ul> <li>TV74 FS NW40KF Turbomolecular Pump (Agilent)         Pumping speed: 56 l.s-1 (N2) Ultimate vacuum: &lt; 8.10(-10)         mbar Inlet flange: NW40KF Exhaust flange: NW16KF</li> <li>Rack Control Unit TV74-AG RS232-485 interface         110/220V</li> </ul>					



Account owner name: PASQAL SAS

**BIC/SWIFT code: BNPAFRPPXXX** 

IBAN account number: FR76 3000 4029 9900 0100 3861 904

# **Proposal PR2410-0334**

Date of proposal : 10/10/2024 Validity ending date : 10/25/2024 Customer Code : CU2407-00023

<ul> <li>Dry Scroll Pump IDP3 Flow rate: 3m3/h Ultimate vacuum: 2.10(-1) Torr Inlet flange: DN16KF</li> <li>Cooling fan for V74FS</li> <li>Safety filter for V74FS</li> <li>Copper gasket (KF25) (2m)</li> <li>Clamps and gaskets</li> <li>Adapter 40/25</li> <li>Bellows valve DN25</li> <li>Mobile support</li> <li>Delivered in parts. Assembly carried out by our team during delivery.</li> </ul>	0%	6,743.00	1	6,743.00
Too A Current Lead Pair     300K Sealed Feedthrough     50K Thermalization     One pair of HTS 100A current leads     Mounting in Optidry	0%	2,734.00	1	2,734.00
Shipping and installation	0%	7,215.00	1	7,215.00
Special offer Discount after negociation	0%	-5,686.50	1	-5,686.50

Availability of	delay:	8 Months		Total (excl. tax)	209,000.00
Payment by tr	ansfer to the foll	lowing bank accoun	t:	Total (inc. tax)	209,000.00
Bank: BNP					
Bank code	Branch code	Account number	Checksum	Written acceptance, company stamp, c	late and signature
30004	02999	00010038619	04		
Address: Centre d	l'affaire lle de Franc	e Innovation			