

## 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.

Department Name: Phy	ysics	Contact & Phone: 65056	615247
		Product/Service Cost: <u>39</u>	1430
		✓ One Time PurchaseT	erm Contract:
		Multiple Purchases	Duration:
Company Name: Qua	ntum Design	<sub>Email:</sub> sli@qdusa.co	om
Contact Person: (Lee)	) She Li	Title: Technical Sale	es Manager
Product and/or Service:	Opticool 7 Tesla Crogen F	ree Conical Split-Coil Superco	nducting Magnet System
Only justifications submi All the listed points MUS pages as needed. Failure form being returned with	itted on this form and in T be fully answered on t to submit justification a out review.	the below format will be rev he following pages and any as outlined in the format belo	iewed for approval. additional attached ow will <u>result in the</u>
	PART III: SOLE SOUR	CE CERTIFICATIONS	
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Signature

Printed Name and Title (Chief Financial Officer)

Date

POSTING NOTICE				
05/23/2025 at 3:30pm EST	SS# 2512	Trinh Nguyen		
Posting End Date	UCF Control No.	Procurement Specialist		
	POSTING N 05/23/2025 at 3:30pm EST Posting End Date	POSTING NOTICE       05/23/2025 at 3:30pm EST     SS# 2512       Posting End Date     UCF Control No.		

### 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.

The system is a cryogenic system with optical access as well as with a 7 tesla magnetic field. We will use this system to cool down our samples, apply a strong magnetic field and probe the material under these condition with a ultrafast laser system.

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

By applying a strong magnetic field (~7T) to materials, we can create so-called Landau levels. These new levels have enhanced quantum coherence, which we would like to study. In the long run, these states may have applications in quantum information science. To study these Landau Levels we need to focus our broadband (ultrafast) laser beam on the sample. It is important that the size of the focus spot is as small as possible and that we avoid dispersive focusing elements, which means that we have to use reflective optics with a small working distance. As these optics cannot be placed outside the system (focus distance too long), they must be placed inside. Typically in these systems, the space to place these components inside is limited. It is essential that there is enough (85 mm by 80 mm) space for the sample, a motorized stage and two parabolic mirrors. Additionally the required temperature range is about 2K and the magnetic field should be as large as possible, minimum 7T. At least three optical windows are required.

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

	DRY ICE	Oxford Instruments SpectromagPT	Montanna	Opticool
Optical access	Y	Ŷ	Y	Y
Magnetic field (>7T)	Y	Y	N	Y
Cryogenic Temperature	Y	Y	Y	Y
Enough sample space	N	N	Ν	Y

 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.)

OptiCool's innovative sample pod technology and generous 89 mm diameter by 84 mm tall sample volume provide possibilities to create and build the required set-ups for optical measurements. In this configuration we will guide our broadband laser beam (tunable from visible to MIR) into the system, where one parabolic focus the laser beam to the sample placed on a motorized stage while a second parabolic mirror collimates the laser beam to guide it out of the system. The minimum required sample space of 85 mm by 80 mm was only found with opticools commercially available system.

4. Are there resellers or distributors? If yes, please list names and contact information.

No the system is directly be purchased from the company. No reseller for this specific systems are available.

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.

Discussion with Sales person via Email and Zoom. Special discount of \$60000 has been worked out, corresponding to a reduction of 13.3%.

Joel:

I approve of this sole source award.

Regards,

Gerald

Sent from my iPhone

On May 19, 2025, at 4:00 PM, Joel Levenson <Joel.Levenson@ucf.edu> wrote:

Gerald,

Apologies, I left you off of the request for sole source approval! Please review and let me know if you have any questions,

From: Brian Sargent <Brian.Sargent@ucf.edu>
Sent: Monday, May 19, 2025 11:30 AM
To: Joel Levenson <Joel.Levenson@ucf.edu>
Cc: Trinh Nguyen <Trinh.Nguyen@ucf.edu>
Subject: FW: C0124928: Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Hi Joel,

Following up on this and noticed Gerald was not copied on your previous email.

Regards, Brian

From: Joel Levenson <<u>loel.Levenson@ucf.edu</u>>
Sent: Friday, May 9, 2025 3:47 PM
To: Trinh Nguyen <<u>Trinh.Nguyen@ucf.edu</u>>; Brian Sargent <<u>Brian.Sargent@ucf.edu</u>>
Subject: RE: C0124928: Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Gerald,

I approve of this sole source as well. The documentation shows this is the only piece of equipment to meet the requirements of the researcher and further documentation shows sole source awards have been awarded previous to this request.

If you approve, reply all to this email and indicate as such. If you have additional questions, let me know.

Thank you,

From: Trinh Nguyen <<u>Trinh.Nguyen@ucf.edu</u>>
Sent: Friday, May 9, 2025 1:24 PM
To: Brian Sargent <<u>Brian.Sargent@ucf.edu</u>>; Joel Levenson <<u>Joel.Levenson@ucf.edu</u>>
Subject: RE: C0124928: Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Sorry, attached is the SS and Quote.

Thanks! Trinh

From: Brian Sargent <<u>Brian.Sargent@ucf.edu</u>>
Sent: Friday, May 9, 2025 1:04 PM
To: Trinh Nguyen <<u>Trinh.Nguyen@ucf.edu</u>>
Subject: RE: C0124928: Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Hi Trinh,

Please assist.

Thanks, Brian

From: Joel Levenson <<u>Joel.Levenson@ucf.edu</u>>
Sent: Friday, May 9, 2025 12:58 PM
To: Brian Sargent <<u>Brian.Sargent@ucf.edu</u>>
Cc: Trinh Nguyen <<u>Trinh.Nguyen@ucf.edu</u>>
Subject: RE: C0124928: Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Sounds good, can you attach the sole source to this?

From: Brian Sargent <Brian.Sargent@ucf.edu>
Sent: Friday, May 9, 2025 12:28 PM
To: Joel Levenson <Joel.Levenson@ucf.edu>
Cc: Trinh Nguyen <Trinh.Nguyen@ucf.edu>
Subject: FW: C0124928: Physics Department SoleSource ChristianHeide QuantumDesign

Good afternoon Joel,

TGIF! I also support the reference sole source submitted by the Physic's Department. This Cryogenic system produced by Quantum Design is the only product that meets the full requirements, notably having the required space for the optical sample, a motorized stage and two parabolic mirrors.

A search of GovSpend identified a sole source approved by the University of Illinois and UCF

approved the same system for CREOL last year as a sole source.

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

Regards, Brian

From: Trinh Nguyen <<u>Trinh.Nguyen@ucf.edu</u>>
Sent: Friday, May 9, 2025 10:42 AM
To: Brian Sargent <<u>Brian.Sargent@ucf.edu</u>>
Subject: FW: C0124928: Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Hi Brian,

Happy Friday! 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: Quantum Design Product: Opticool 7 Tesla Cryogen Free Conical Split-Coil Superconducting Magnet System Total Amount: \$391,430 Dept: Physics

**Requirement:** The department wants to purchase a Cryogenic system with optical access as well as with a 7 tesla magnetic field. The required specifications are listed below.

**Research Conducted:** The PI confirmed that to the best of his knowledge, the suppliers listed below are companies in the marketplace that can provide similar Cryogenic System. However, only the product from Quantum Design can meet all the requirements below.

Specifications Requirements	Quantum Design - Opticool	DRY ICE	Oxford Instruments SpectromagPT	Montanna
Optical Access for laser access. At least 3 windows are required.	Yes	Yes	Yes	Yes
Magnetic field (>=7T)	Yes	Yes	Yes	No
Cryogenic Temperature ~ 2-350 K	Yes	Yes	Yes	Yes
Enough space inside the cryostat for focusing optics– Minimum required space is 85x80 mm2 for the sample, a motorized stage and two parabolic mirrors.	Yes	No	No	No

- The Cryogenic System from Quantum Design is the only one that has the required space for the optical sample, a motorized stage and two parabolic mirrors. The minimum required sample space of 85 mm by 80 mm was only found with Quantum Design Opticool commercially available system.
- There are no resellers/distributors for this customized laser system.

**Price is fair and reasonable:** The price is deemed fair and reasonable given that the Cryogenic System from Quantum Design is the only one that can meet all the above requirements. The PI has negotiated the equipment required with a special discount of \$60,000, a reduction of 13.3%.

**GovSpend**: In GovSpend, there's an approved SS justification from University of Illinois at Chicago, dated March of 2021 and UCF also approved the same system as a sole source (SS#2408) for CREOL with noted unique features that support the above requirements.

<image001.png>

<image002.png>

Thanks, Trinh

From: Christian Heide <<u>christian.heide@ucf.edu</u>>
Sent: Thursday, May 8, 2025 12:31 PM
To: Trinh Nguyen <<u>Trinh.Nguyen@ucf.edu</u>>
Cc: Sierra Cliburn <<u>Sierra.Cliburn@ucf.edu</u>>
Subject: Re: C0124928:Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Hi Trinh,

It looks great, let me add minor changes

Specifications	Quantum Design	Oxofrd ICE	Oxford Instruments	Montanna
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Requirements	- Opticool	DRY ICE	SpectromagPT	
Optical Access for laser	Yes	Yes	Yes	Yes
access. At least 3				
windows are required.				
Magnetic field (>=7T)	Yes	Yes	Yes	No
Cryogenic Temperature ~	Yes	Yes	Yes	Yes
2-350 K				
Enough space inside the	Yes	No	No	No
cryostat for focusing				
optiocs– Minimum				
required space is 85x80				
mm2 for the sample, a				
motorized stage and two				
parabolic mirrors.				

From: Trinh Nguyen <<u>Trinh.Nguyen@ucf.edu</u>> Date: Thursday, May 8, 2025 at 5:59 PM To: Christian Heide <<u>christian.heide@ucf.edu</u>> Cc: Sierra Cliburn <<u>Sierra.Cliburn@ucf.edu</u>> Subject: FW: C0124928:Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Hi Christian,

I'm reviewing the Quantum Design Sole Source. Can you please confirm that I've captured the required specs needed for the Cryogenic system.

Specifications	Quantum Design	DRY ICE	Oxford Instruments	Montanna
Requirements	- Opticool		SpectromagPT	
Optical Access – These optics cannot be placed outside the system; they must be placed inside.	Yes	Yes	Yes	Yes

Magnetic field (>7T)	Yes	Yes	Yes	No
Cryogenic Temperature range is ~ 2K	Yes	Yes	Yes	Yes
Enough space – Minimum required space is 85 mm by 80MM space for the sample, a motorized stage and two parabolic mirrors.	Yes	No	No	No

Thanks, Trinh

From: Brian Sargent <Brian.Sargent@ucf.edu>
Sent: Tuesday, April 29, 2025 11:02 AM
To: Sierra Cliburn <Sierra.Cliburn@ucf.edu>
Cc: Trinh Nguyen <Trinh.Nguyen@ucf.edu>
Subject: C0124928:Physics Department\_SoleSource\_ChristianHeide\_QuantumDesign

Good morning Sierra,

This sole source has been assigned to Trinh Nguyen for review.

Regards,

Brian

<UCF-Heide-OptiCool-QSL2025040806A.pdf> <Sole-Source\_Quantum Design.pdf>



Christian Heide Assistant Professor Department of Physics University of Central Florida 4111 Libra Drive Physical Sciences Bldg. Orlando, FL 32816-2385 Email: <u>christian.heide@ucf.edu</u>

> April 22, 2025 Quotation Number **QSL2025040806A**

# **OptiCool System**

7 Tesla Cryogen Free Conical Split-Coil Superconducting Magnet System



Quantum Design, Inc. 10307 Pacific Center Court, San Diego, CA 92121 Main Office: (858) 481-4400 - Direct Phone: (858) 560-5369 E-mail: <u>info@qdusa.com</u> - Web: <u>www.qdusa.com</u>



#### **Confidentiality Notice**

This quotation is for the sole use of the intended recipient(s) and may contain confidential and/or privileged information. Any unauthorized review, use, disclosure or distribution is prohibited.

## SYSTEM PRICING

Line	Description	Price
1	<ul> <li>OptiCool 7 Tesla Cryogen Free Conical Split-Coil Superconducting Magnet System</li> <li>Includes: <ul> <li>7 Tesla Split-Coil Conical Superconducting Magnet</li> <li>Variable Temperature Sample Space</li> <li>Operating temperature range from 1.7K to 350K.</li> <li>8 Optical Access Ports:</li> <li>7 Side Ports, 40 mm diameter, 24.5 mm clear bore, NA &gt; 0.11</li> <li>1 Top Port, 50 mm diameter, 41.5 mm clear bore, NA &gt; 0.7</li> <li>2 User Sample Pods, each with 89 mm x 84 mm Sample Volume</li> <li>X300 Standard Sample Space Wiring Includes:</li> <li>8 Thermally Anchored Twisted Pairs from Sample Pod to User Port</li> <li>Wiring points and thermal anchors for up to 80 user wires</li> <li>Cryoccooler cold-head and water-cooled compressor.</li> <li>Control Electronics and computer.</li> <li>Superconducting Magnet Power Supply.</li> <li>OptiCool MultiVu Control Software.</li> <li>All cables, hoses and pumps for operation.</li> <li>System Manuals.</li> </ul> </li> </ul>	\$379,810
	Options	
2	<ul> <li>X210 Low Working Distance Top Window (4318-600-01)</li> <li>A low working-distance (LWD) top window for use with external microscope objectives.</li> <li>Option A – No coating</li> </ul>	\$5,500
3	<ul> <li>X130 Integrated XYZ Piezo Positioner with Wiring Set</li> <li>Full X, Y, and Z motion control and sample position knowledge</li> <li>Two attocube ANPx311 stages and one ANPz102 stages</li> <li>6 mm travel range in X-Y direction, and 4.8 mm in Z direction</li> <li>Resistive positive feedback with 200 nm resolution</li> <li>Fine Position mode with a range of 0.8 um (X-Y) at 4 K with sub-nm resolution</li> <li>X132 Thermal Link for sample cooling</li> <li>*X130 Includes X132 and X301</li> </ul>	\$59,030



NORTH AMERICA

Line	Description	Price
4	X301 Additional XYZ Positioner Wiring Set	\$7,090
5	Equipment Sub Total	\$451,430
6	2025 Spring New Faculty Promotion	(60,000)
7	System Installation, Start-up, and Training	included
8	<b>One-year full warranty</b> (including parts and labor) starts after delivery and installation	Included
9	Total Package	\$391,430

**PAYMENT TERMS** 50% prepayment at order, Net 30 days 40% upon shipment, Net 30 days 10% after installation and acceptance, Net 30 days

Taxes & fees responsibility of purchaser.

- **LEAD TIME** 6-8 month ARO;
  - FREIGHT FOB DESTINATION Prepaid and Add
- VALIDITY OF Quotation valid for 45 Days OFFER
- WARRANTY 1 Year

#### FOR SALES AND ORDERING INFORMATION, PLEASE CONTACT:

(Lee) Shi Li Quantum Design Technical Sales Manager Phone: (858) 481-4400 x219 Direct Phone: (858) 750-5369 Email: <u>sli@qdusa.com</u>