



SOLE SOURCE CERTIFICATE AND POSTING NOTICE

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.

The purchase requisition can be entered into UCF Financials at any point during the process set forth herein; however, doing so does not ensure approval of the sole source.

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 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.

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) business hours. Upon expiration of said posting period, Procurement Services will process a purchase order upon receipt of the requisition.

Once the completed sole source is received, Procurement Services 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.

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

PART I: DEPARTMENT AND SUPPLIER INFORMATION

Department Name: Physics

Contact & Phone: _____

Purchase Request No.: _____

Product/Service Cost: 134460 euros

Company Name: Roentdek

Email: czasch@roentdek.com

Contact Person: Achim Czasch

Title: _____

Product and/or Service: Hexanode delay-line detectors

Telephone: +49 (69) 798 – 47108

Facsimile: _____

Address: Im Vogelshaag 8, D-65779
Kelkheim-Ruppertshain, Germany

City: _____

State and Zip: _____

PART II: SOLE SOURCE JUSTIFICATION (see pages 4-5)

Only justifications submitted on this form and in the below format will be reviewed for approval. All of the below listed points MUST be fully answered on the following pages and any additional attached pages as needed. Failure to submit justification as outlined in the format below will result in the form being returned without review.

1. Describe the product(s) and/or service(s) and anticipated use thereof in layman's language.
2. State in detail why only this and no other product(s)/service(s) will satisfy the department's requirements.
3. State why the product(s) and/or service(s) are available from only one source and how that determination was made. Explain the research conducted to support this claim.
4. Provide an explanation to support the belief that the price is fair and reasonable.

PART III: SOLE SOURCE CERTIFICATIONS

- A. In my professional opinion, this is the only product or service that can reasonably meet my requirement(s)/specification(s), and this is the only supplier who can provide the product or service. I further certify that the information contained herein is true and correct to the best of my knowledge and belief and would withstand any audit or supplier protest.
- B. I, the undersigned, certify that I and/or the user do not have a financial interest in the above named supplier or contractor, and that I am unaware of any conflict of interest related to this purchase.



Li Fang

09/29/2022

Signature

Printed Name and Title (PI/Researcher/Director/Chair)

Date

I, the undersigned, hereby concur with the above justification and authorize the acquisition of the above product(s) and/or service(s) on a sole source basis.

Maggy Tomova
Digitally signed by
Maggy Tomova
Date: 2022.10.11
08:16:42 -04'00'

Signature

Printed Name and Title (President/Vice President/Dean)
(Delegations not allowed; emails from absent approvers are acceptable)

Date

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.

A delay-line detector is an instrument for detecting electrons and ions with 3 dimensional momentum information. A Hexanode delayline detector consists of a specially designed three-layer wire assembly, time- and position- signal extracting electronics, and power supplies. Hexanode delayline is currently the only commercially delayline technology for zero deadtime detection.

We use these delay-line detectors in our research project for electron and ion measurement which is our dominant experimental approach.

2. State in detail why only this and no other product(s)/service(s) will satisfy the department's requirements.

Delay-line technology is one of the few known methods that can measure charge positions and is the only technology, as we are aware of, that provides 3-D momentum information of charged particles and is suitable for measurement at high repetition rate. In our research projects, we aim to measure electron and ion 3-D momentum distribution while using a high-repetition rate photon source. For the needed resolution of the detection, the Hexanode detector is the only feasible option for us to carry out this type of measurement.

SOLE SOURCE JUSTIFICATION

3. State why the product(s) and/or service(s) are available from only one source and how that determination was made. Explain the research conducted to support this claim.

The delay-line technology was invented by a research group in Germany. The PI started his own company (Roentdek) to provide the detectors to other researchers around the world. Due to the complexity of the system and the relatively small market (mostly for fundamental scientific research), Roentdek is the only company that produces this type of detectors. To our best knowledge, all other research groups who bought delay-line detectors purchased from Roentdek. This is well-known in my research community.

Roentdek owned a patent for the HEX anolde design till Feb last year. They didn't renew the patent but still remain the only company that manufacture their design.

There is another company, called Surface-Concept, that manufactures delay-line detectors. They use different design which cannot achieve zero deadtime. Their design is more for surface science with many signals at a single detection and the cost is much higher.

This purchase is the same as the sole source purchase we did in 2021.

4. Provide an explanation to support the belief that the price is fair and reasonable.

Roentdek is a university-based company. Their staffs understand how PIs run a research group and budget is often limited. Their product is mostly cost-driven, not profit-driven. Their staff provided suggestions on removing items that can be possibly home-made in a research group to help us minimize the total cost. They provide discounts as they can. We have compared the pricing we received from the vendor with the pricing that one of PI's colleagues received a few years ago for a simialr configuration. The pricing is fair and reasonable.

From: [Gerald Hector](#)
To: [Joel Levenson](#)
Cc: [Brian Sargent](#); [Trinh Nguyen](#)
Subject: Re: Sole Source Certificate for review - Roentdek
Date: Tuesday, October 25, 2022 9:40:21 PM

Joel:

I approve of this sole source request based on the documentation provided.

Regards,

Gerald.

From: Joel Levenson <Joel.Levenson@ucf.edu>
Sent: Tuesday, October 25, 2022 12:43 PM
To: Gerald Hector <Gerald.Hector@ucf.edu>
Cc: Brian Sargent <Brian.Sargent@ucf.edu>; Trinh Nguyen <Trinh.Nguyen@ucf.edu>
Subject: FW: Sole Source Certificate for review - Roentdek

Good afternoon Gerald,

We have a relatively easy sole source for your approval today! The specific good being purchased is a delay line detector, however only this model from the vendor send the information needed back to the PI for their research in the format needed. Procurement has looked into other vendors with no success. Additionally, a sole source was approved for this supplier and product last year with the same rationale being true today.

After your review, If you approve, reply all or let us know what further questions you have.

From: Brian Sargent <Brian.Sargent@ucf.edu>
Sent: Monday, October 24, 2022 9:50 AM
To: Joel Levenson <Joel.Levenson@ucf.edu>
Cc: Trinh Nguyen <Trinh.Nguyen@ucf.edu>
Subject: FW: Sole Source Certificate for review - Roentdek

Hi Joel,

I support this sole source for approval. Roentdek is the only source for delay line detectors that meet the following requirements which are necessary for this project. A sole source was approved to this vendor last year for the same product, and this vendor remains the sole source. A potential competitor was previously discovered by Gina through research and the PI contacted them for information. However, their product is not a three-layer HEXanode, which is also a requirement of

their research. Additionally, Surface Concept was researched on, but their device cannot meet the zero deadtime detection.

- can measure charge positions
- provide 3-D momentum information of charged particles
- measure at high repetition rate
- Zero deadtime detection

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

Regards,

Brian

From: Trinh Nguyen <Trinh.Nguyen@ucf.edu>
Sent: Monday, October 24, 2022 9:14 AM
To: Brian Sargent <Brian.Sargent@ucf.edu>
Subject: FW: Sole Source Certificate for review - Roentdek

Hi Brian,

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

Vendor: Roentdek
Product: Hexanode delay-line detectors
Total Amount: \$134,460 EUR as of 9/29/22
Dept: Physics

Requirement: The department needs to procure a delay line detector to meet the below requirements

- Detecting electrons and ions with 3D momentum information.
- Can measure charge positions
- Measure at high repetition rate
- Zero deadtime detection

Research: Roentdek is the only supplier capable to meet all the above requirements. There was one other source, Surface Concept, which was researched on, but their device cannot meet the zero deadtime detection. Back in July of 2021 the department submitted a sole source that was approved for the same device and justification. Roentdek remains the only company that produces this type of detectors.

Price is fair and reasonable: The PI consider the price to be fair and reasonable and noted that Roentdeck is a university-based company for research, so their product is mostly cost-driven and not for profit.

Thanks,
Trinh

From: Sierra Cliburn <Sierra.Cliburn@ucf.edu>
Sent: Monday, October 17, 2022 1:50 PM
To: Brian Sargent <Brian.Sargent@ucf.edu>
Cc: Leida Vera Nater <Leida.VeraNater@ucf.edu>; Trinh Nguyen <Trinh.Nguyen@ucf.edu>
Subject: RE: Sole Source Certificate for review

Good afternoon, All,

My apologies. Please see the updated copy with the Deans signature. Point of contact for any questions would be Dr. Li Fang. If I can be CC's on the email that would be great as well. Thank you for your assistance.

Best,
Sierra Cliburn
Travel/Procurement Coordinator II
407-823-1325

From: Brian Sargent <Brian.Sargent@ucf.edu>
Sent: Monday, October 17, 2022 12:12 PM
To: Sierra Cliburn <Sierra.Cliburn@ucf.edu>
Cc: Leida Vera Nater <Leida.VeraNater@ucf.edu>; Trinh Nguyen <Trinh.Nguyen@ucf.edu>
Subject: FW: Sole Source Certificate for review

Hi Trinh,

Assigning this SS review to you.

Hi Sierra,

The form is missing the signature from your Vice President/Dean (signature block #2). Please obtain that and forward to Trinh when completed. Also, who would be Trinh's point of contact if she has any questions?

Thanks,

Brian

From: Sierra Cliburn <Sierra.Cliburn@ucf.edu>
Sent: Monday, October 10, 2022 3:26 PM
To: Brian Sargent <Brian.Sargent@ucf.edu>
Cc: Leida Vera Nater <Leida.VeraNater@ucf.edu>
Subject: Sole Source Certificate for review

Hello Brian,

Please see the attached Sole source for review if possible while waiting on remaining signatures.
Thank you.

Best,

Sierra Cliburn

Travel/Procurement Coordinator II

407-823-1325