

# CAPITAL BUDGET PROJECT REQUEST FORM as of 3 Jan 20 (page 1 of 3)

Please provide the following information regarding your project request:

Name: David B Bieler Date: 1/31/2021  
 Title: \_\_\_\_\_ Phone No: 3188695234  
 Department: Geology Email Address: dbieler@centenary.edu

### SCOPE:

Building and Room No (s): Mickle Hall, Room 304 (Instrumental Analysis Lab in Chemistry)

Briefly Describe Project: Replace and upgrade old energy dispersive detector on the SEM

- Type of Project: (check all that apply):
- Office Renovation
  - Classroom
  - Landscaping
  - Lab Renovation
  - Residence Hall
  - Building Repairs
  - Feasibility Study
  - IT
  - Deferred Maint.
  - Other (please describe) \_\_\_\_\_

### SCHEDULING/COST:

Requested Completion Date: 09/01/2021 Est. Cost: 24,200

### AUTHORIZED SIGNATURES:

IT Related Approval: Scott Merritt 1/31/2021 Scott Merritt  
For IT purchases  
 Facilities Approval: Chris Sampite 1/31/2021 Chris sampite  
Building renovations/modifications  
 Department Head: \_\_\_\_\_  
 Vice President: Karen Soul 2/1/2021 Karen soul

(Forward to [VPFA@centenary.edu](mailto:VPFA@centenary.edu))  
 Date of Cabinet Approval \_\_\_\_\_

F/O/A/P: \_\_\_\_\_

DocuSigned by: [Signature]  
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## PROJECT REQUEST FORM (page 2 of 3)

Please provide the following additional information regarding your project

All new project requests must be approved by the Cabinet and be included in the FY 21 budget before work can begin.

To facilitate the project review process, the following questions in this two-page Appendix are now required to accompany all new Project Request Form (PRF) submissions. The Appendix is an opportunity for you to explain the significance and value of the project you wish to pursue for your Department. The questions listed below are questions that must be answered for each new PRF. Incomplete forms will not be included in the capital budget schedule.

If your answers are unable to fit in the space allotted below, please feel free to provide the information in a separate document attached with your PRF submission or in an email accompanying your submission.

Q1. What is the intended funding source of this project?

Capital Budget Funds  Operating Budget Funds

Specify: This is replacement for old analytical equipment

Q2. What is your overall estimated cost for this project? If this PRF is for a preliminary/feasibility study for a larger project, please include your best estimate of what the larger project will cost. Please do *not* answer this question with "TBD" or "unknown" or "request an estimate" or a similar type of response. \$: 24,200

Per attached quotation, the cost from manufacturer including installation and training is \$24,200.

Q3. What is the academic need or business need that this project will fulfill?

This request is for the purchase of a replacement for the 15-year old energy dispersive X-ray detector on the SEM. Reasons for this replacement: [1] the old detector have a 12-18 year life. We are seeing a reduction in count rates and stability which reduces the accuracy and precision of the resulting data; [2] The new detector does not to be cooled with liquid nitrogen like the old detector. The new detector is electronically cooled, saving hundreds of dollars annually. [3] The new detectors are much more stable and produce 10-20x the signal that the old detector did. A new detector assures that our students will be able to collect high quality data for both class and research projects.

Facilities Director's Comments: No facilities modification necessary. Great.

IT Director's Comments:

## PROJECT REQUEST FORM (page 3 of 3)

APPENDIX

Please provide the following additional information regarding your project

Q4. What are the current limitations of the existing space? (In other words, why is this project request necessary?)

No space modifications are necessary. The project is necessary to assure continued functionality of the multiple aspects of the SEM. These parts wear out and need periodic replacement, and ours is close to the end of it's life span.

Q5. Why is it important that this project happen *this FY* (as opposed to happening in a future FY)?

We know that the current detector is failing from both the total number of counts being measured and the reproducibility of the analyses. We cannot predict when it will fail completely, but it doesn't have much longer, and budgeting is always preferable to emergency funding during the year.

Q6. Does this project request support a new initiative, new position, or new employee? If yes, please briefly describe and include the names and positions of the new hires/candidates if known at this time.

No new budgetary commitments beyond the purchase and installation are required.

Q7. If this project request is not approved, what effect will this have on your operation?

It will impede the work of students to produce quality research projects that are becoming ever more important for admission to graduate school and are even begin reviewed now during employment consideration. To cite an example, Chevron views the completion of a significant undergraduate research project as a sign of long term commitment by the student to pursuing the geosciences.

Q8. Is this a one-time annual cost? YES  NO  If NO, will it require additional on-going annual funding and do you have those funds and VP support for those annual costs? YES  NO





IXRF Systems, Inc.  
 10421 Old Manchaca Rd.  
 Suite 620  
 Austin, TX 78748  
 Main: 512.386.6100  
 Fax: 512.386.6105

QUOTATION # 00002239  
 SDD2810\_Centenary  
 College\_01.14.21

Quotation Valid: 90 days  
 Existing Job#: n/a  
 Account Manager: Dave Bush (215) 435-5151  
 Region:

To: Scott Vetter  
 Company: Centenary College of Louisiana  
 Location: 2911 Centenary Blvd Dept of Geology  
 Shreveport, LA 71104

Mobile: (318) 869-5055

Office:  
 Email: svetter@centenary.edu

Date: January 14, 2021  
 System Type:  
 Existing EDS Make/ Model:  
 Existing Detector Make/ Model:  
 Terms: 50% on Purchase Order; 50% at Install  
 Net 15  
 Est. Delivery: 8-10 weeks

Product	Description	Qty	Total Price
SDD2810	Silicon Drift Detector with 128eV, 10mm2	1	\$19,200

Product	Description	Price
Installation	• Installation and basic training on IXRF Product(s)	USD 5,000.00
Training	• Additional Training available for purchase upon request	Optional
Warranty	<ul style="list-style-type: none"> <li>• 1 year part and labor warranty on IXRF products.</li> <li>• Additional service contracts and extended warranties are available.</li> <li>• Lifetime Software License with Free Software Upgrades.</li> <li>• Free Software / Feature Upgrades for the Life of the System via the Internet.</li> </ul> <p><u>Terms of Warranty</u></p> <p><i>Warranty coverage includes diagnosis and repair or replacement of equipment. IXRF will diagnosis any purported problem to determine the appropriate course of action for malfunctioning or defective equipment. If repair or replacement is required, IXRF may send replacement equipment, packing materials, or an engineer on-site, if deemed necessary, to perform the repair or replacement. Warranty coverage term is determined by the contract and begins upon installation of new equipment or final payment where renewal or extension of warranty is purchased. Warranty coverage only includes defective or malfunctioning equipment as determined by IXRF to be derived solely from internal failure.</i></p>	Included
Terms of Delivery	<ul style="list-style-type: none"> <li>• Payment: 50% with Purchase Order, 50% upon Install, Net 15. If Customer fails to pay IXRF Inc.'s invoices when due, interest shall accrue on the unpaid balance at the rate of 1.5% per month (prorated for any period less than a month).</li> <li>• Orders may not be cancelled or modified after the order confirmation is sent by IXRF, Inc. Should an order be cancelled or refused by a customer after the order confirmation is sent, there will be a 50% restocking fee. The fee will be calculated on the total cost of the products, excluding installation costs.</li> <li>• Prices: ExWorks International, Austin, TX. Seller will pay shipping on US orders.</li> <li>• Specifications are subject to change without prior notification</li> <li>• Installation and training may be delayed due to travel/visitation restrictions due to COVID-19 pandemic</li> </ul>	

Total		
	Subtotal	USD 19,200.00
	Grand Total	USD 24,200.00