

To: Ms Julia Leverenz

Delivered via email to leverenz@jlab.org

Thomas Jefferson National Laboratory

SURA - 06-Q020 Hall D Solenoid Controls

CSI Quotation Q05340



**7701 Northport Drive
Lansing, Mi 48917-8541**

**Voice: (517) 322-8880
Fax: (517) 322-3030**

**Meechele Nettle, Sales Representative
October 19, 2005**



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CSI Quotation Q05340

Ms Julia Leverenz
Thomas Jefferson National Laboratory
12000 Jefferson Avenue, MS28A
Newport News, VA 23606

Subject: **SURA - 06-Q020 Hall D Solenoid Controls**

Dear Julia,

Control System Integrators (CSI) is pleased to submit this quotation in response to your request for **Systems Engineering Services and Control Panels** on the above-referenced project. We sincerely appreciate this opportunity and are confident we can successfully meet your needs. The following is a complete description of the work to be performed and the related terms and conditions of our proposed agreement.

SCOPE: Provide electrical control design and documentation for a solenoid magnet.

CONTROL ENGINEERING:

- ITEM #1** Design and document (AutoCAD 2005) control system for a superconducting solenoid magnet (HDSSM) per JLAB specifications. This will include the following:
- Electrical layout of the solenoid magnet system
 - Layout and documentation of control panels and racks
 - Control build prints for solenoid local control rack system
 - Complete bill of material

ITEM TOTAL \$30,760.00

EXCEPTIONS AND CLARIFICATIONS:

- This quotation does not include manuals of any kind. All manuals and training guides are the responsibility of JLAB.
- All AutoCAD files will be produced in AutoCAD 2005.
- If any CAD or electronic file is supplied to CSI for use with this project, the quotation is based on CSI being supplied with useable CAD/electronic file. If any file supplied to CSI for use or reference is deemed non-useable due to bad translations or corrupt files, the project will be immediately put on hold status until a good file or print is received.

JLAB RESPONSIBILITIES:

This quotation is based on the following:

- JLAB to provide CSI with I/O listing.



- JLAB to provide CSI with all applicable standards or specifications as related to this project. CSI reserves the right to update or revise this quotation upon receiving those specifications if necessary.
- JLAB to provide CSI with CAD files (dwg, iges, or dxf) for the appropriate title blocks to be used on this project.

Our proposal relies on the ready availability of the above information needed to complete this project. If our staff is to help facilitate the gathering of this information, we will charge our normal rates for this service.

NOTES:

NOTE TO PURCHASING: Upon issuance of a purchase order, please refer to the corresponding quotation number: **Q05340**.

This quotation represents our understanding of all services to be performed. It is formalized through a written purchase order from JLAB and becomes a part of that purchase order.

The terms, conditions, and pricing listed herein are in U.S. dollars and valid for thirty (30) days from the date of this quotation.

DELIVERY:

Delivery will be February 15, 2006 or before assuming timely receipt of purchase order and all necessary reference data.

NOTE: The above delivery period is based on the project proceeding straight through from the time of P.O. issuance. Any delays due to change in parts, change in JLAB concept or approval time in excess of three working days will be added onto the delivery period. Approval time is defined as CSI having a signed approval drawing or other written form of approval for submitted review drawings and/or concepts.

WARRANTY:

All work performed and equipment installed at the above project shall be guaranteed against defective material and faulty workmanship for a period of one (1) year from date of installation.

During this period, CSI shall make any and all repairs, adjustments, or replacements that may become necessary due to defective material, workmanship, and/or installation, of work contracted to us.

TERMS OF PAYMENT:

All payments are due and payable thirty (30) days from the date of the invoice.

In addition to any price specified herein, you shall pay or reimburse CSI the gross amount of any applicable sales, use, or other applicable tax to this contract or, the subject matter hereof. In the alternative, you shall furnish CSI with evidence of tax exemption acceptable to the appropriate taxing authorities.



CSI Quotation Q05340

Thank you for the opportunity to quote your requirements. As always, CSI intends to complete this assignment in a way that earns your trust and solidifies a mutually rewarding relationship. If you have questions or concerns, please feel free to contact Meechele Nettle or myself. We look forward to the receipt of your purchase order and the successful completion of this project.

Sincerely,

A handwritten signature in black ink, appearing to read 'DDB', is written over the word 'Sincerely,'.

Dennis D. Bunker
Estimating Director
Control System Integrators
Email: dbunker@controlsi.com
Voice: (517) 322-8880
Fax: (517) 322-3030

DDB/jaj

Attachment: Q05340 Hall D design CSI 06-Q020

Request for Quotation (RFQ)

(Services or Construction)

Southeastern Universities Research Association (SURA)
 Thomas Jefferson National Accelerator Facility (TJNAF)
 12000 Jefferson Avenue
 Newport News, VA 23606
 Attention: Business Services MS 28B

This Is Not A Purchase Order RFQ Number: SURA-06-Q020 Date Issued: <u>10-11-05</u> Requisition No: 237092			Submit Quotation To SURA/TJNAF By <u>12:00 noon EST</u> On: <u>10-17-05</u> / / Facsimile Quotes Are Not Authorized When Box Marked / X /. E-Mail Quotations are Not Authorized.		
Buyer: Julie Leverenz		Telephone No. 757-269-7642 e-mail leverenz@jlab.org		Fax# (757)269-7057	
Item No. (a)	Description (b)	Quantity (c)	Unit (d)	Unit Price (e)	Amount (f)
1	Perform documentation services as specified in Statement of Work No. D00000-09-05-0000	1	JOB	\$30,760.00	\$30,760.00
Proposed Delivery Schedule: 12 to 14 weeks from order date					

Payment Terms: Indicate any prompt payment discounts; otherwise payment terms shall be Net 30 days.

Business Status: If total Amount exceeds \$2,500, complete the following (check all that apply):

- | | | |
|---|---|---|
| <input type="checkbox"/> Small Business | <input checked="" type="checkbox"/> Large Business | <input type="checkbox"/> Small Veteran-Owned Business |
| <input type="checkbox"/> Small Disadvantaged Business | <input type="checkbox"/> Small Woman-owned Business | |
| <input type="checkbox"/> Organization for the Handicapped | <input type="checkbox"/> HUBZONE | <input type="checkbox"/> Institute of Higher Learning |
| <input type="checkbox"/> Nonprofit Organization | <input type="checkbox"/> Foreign Business Concern | |

Name, Address, Phone Number, and Fax Number of Firm Submitting Price Quotation (Type or Print):

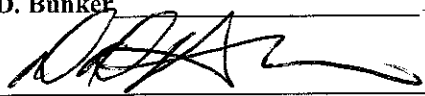
Company Name: Control System Integrators, Inc.

Address: 7701 Northport Drive
Lansing, MI 48917

Telephone No. (517) 322-8880 Fax No. (517) 322-3030

Name and Title of Person Authorized to Sign Quotation (Type or Print)

Name: Dennis D. Bunker Title: Vice President

Signature:  Date of Quote: October 19, 2005

SOLICITATION NOTICES (Services or Construction)

Clauses with check boxes are applicable if box is marked "/ X /"

1. GENERAL INFORMATION

Purchase orders (POs) issued by the Southeastern Universities Research Association, hereinafter called "SURA," are executed under the authority of SURA's prime contract (No. DE-AC05-84ER40150) with the U.S. Department of Energy (DOE).

a. Award will be made to the most advantageous offer to SURA, price and other factors considered.

/ / In addition to other factors, offers will be evaluated on the basis of advantages and disadvantages to SURA that might result from making more than one award (multiple awards). It is assumed, for the purpose of evaluating offers, that \$500 would be the administrative cost to SURA for issuing and administering each subcontract awarded under this solicitation, and individual awards will be for the items or combination of items that result in the lowest aggregate cost to SURA, including the assumed administrative costs.

/ / Specific evaluation factors apply to this solicitation. See Attachment M, below.

/ / Offerors shall submit quotations in accordance with provisions in Section L, Contents of Quotes. See Attachments, below.

b. Unless otherwise indicated on the solicitation or purchase order, prices shall include all applicable Federal, State, and Local Taxes.

/X/ This requirement is exempt from Commonwealth of Virginia Sales and Use Taxes. A Certificate of Exemption form is available upon request.

c. SURA may reject any or all quotations if such action is in the public interest, and waive informalities and minor irregularities in quotations received.

d. Representations and Certifications (Page 3) as attached must be completed and returned with the offeror's quotation. **(Applicable if valued >\$10,000).**

2. SMALL BUSINESS SIZE STANDARD AND PRODUCT CLASSIFICATION: (Applicable if Valued >\$2,500)

a. The NAICS is 541490.

b. The small business size standard is \$6M (insert size standard)

3. NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE

a. Offers are solicited only from small business concerns. Offers received from concerns that are not small business concerns shall be considered non-responsive and will be rejected.

b. Any award resulting from this solicitation will be made to a small business concern.

/X/ **DISSOLUTION OF SMALL BUSINESS SET ASIDE** – The small business set-aside under part 3 above is dissolved; therefore, this procurement is not restricted to only small business firms.

5. **SITE VISIT:** Prior to quoting, a site visit / / is /X/ is not required. If required, the site visit shall be held at _____ on _____. Hard hats, safety shoes, and safety glasses / / are / / are not required. Interested Quoters should come to the lobby of the VARC building (Building No. 28), 12000 Jefferson Avenue, Newport News, VA.

6. **ATTACHMENTS:** The Attachments marked /X/ below are attached and will be incorporated into any purchase order awarded as a result of this solicitation.

a. / / Schedule B, Supplies or Services and Prices/ Costs, must be completed and returned with the offeror's quotation

b. /X/ Section C, Statement of Requirements

c. / / Section D, EH&S and Fire Protection

/ / Short Form

/ / Services

/ / Construction

d. / / Section H, Special Subcontract Requirements

/ / Services

/ / Construction

e. /X/ Section I, Subcontracts

/X/PD Form 17d, Non-Commercial Services ≤\$100K

/ /PD Form 17g, Commercial Services ≤\$100K

/ /Commercial Services Part II, Section I >\$100K&≤\$1M

/ /Construction Services ≤ \$100K

f. / / Section L, Contents of Quotes

g. / / Section M, Evaluation Factors for Award

h. / / Bond/Guarantee Requirements (Construction > \$25K

i. / / Wage Determination No. _____

/ / Service Contract Act (Services > \$2,500)

/ / Davis Bacon Act (Construction > \$2,000)

j. / / Davis Bacon Labor Standards Provisions

Representations/Certifications

Representations/Certifications must be completed and returned with all quotations exceeding \$10,000

1. CERTIFICATION OF NON-SEGREGATED FACILITIES

- (a) By the submission of this offer, the offeror certifies that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The offeror agrees that a breach of this certification is a violation of the Equal Opportunity clause in the subcontract.
- (b) The offeror further agrees that (except where it has obtained identical certifications from proposed subcontractors for specific time periods) it will:
- (1) Obtain identical certifications from proposed subcontractors before the award of subcontracts under which the subcontractor will be subject to the Equal Opportunity clause;
 - (2) Retain the certifications in the files; and
 - (3) Forward the following notice to the proposed subcontractors (except if the proposed subcontractors have submitted identical certifications for specific time periods):

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENTS FOR CERTIFICATIONS OF NONSEGREGATED FACILITIES

A Certification of Non-segregated Facilities must be submitted before the award of a subcontract under which the subcontractor will be subject to the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

2. AFFIRMATIVE ACTION COMPLIANCE

The offeror represents that (a) it has developed and has on file, has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or (b) it has not previously had subcontracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.


3. PREVIOUS CONTRACTS AND COMPLIANCE REPORTS

The offeror represents that:

- (a) It has, or has not participated in a previous subcontract or subcontract subject either to the Equal Opportunity clause of this solicitation, the clause originally contained in Section 310 Executive Order No. 10925, or the clause contained in Section 201 of Executive Order No. 11114;
- (b) It has, or has not, filed all required compliance reports, and
- (c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

CERTIFICATION

By signing below, the offeror certifies that these representations are accurate, current and complete.

Date:	October, 19, 2005
Signature:	
Name (Typed):	Dennis D. Bunker
Title:	Vice President
Name of Firm:	Control System Integrators, Inc.
Street Address:	7701 Northport Drive
City, State, Zip:	Lansing, Michigan 48917
Telephone:	(517) 322-8880

Section C
Statement of Work
Hall D Solenoid Controls
Document #: D00000-09-05-0000

Introduction

The work described herein is for design and documentation of controls of a Superconducting Solenoid magnet (HDSSM). This document serves as the basic guideline of the job requirements and the process to be followed. The document will be adjusted as needed to ensure all parties are comfortable that the work to be performed and the process to be followed will lead to a successful and timely project conclusion. A fixed price quotation for the work described herein is requested.

Basic description

This work involves drawing the electrical schematics and designing and documenting the associated mechanical racks and panels. A vendor shall direct and supervise the work on behalf of Thomas Jefferson National Laboratory (JLAB). Invoices shall be directly billed to JLAB.

This work will result in:

1. Overall electrical documentation of the Solenoids' magnet system.
2. Layout and documentation of the control racks and panels.
3. A set of build-to-print drawings for the Solenoid Local Control rack system using Jlab's drawing title blocks and documentation guidelines.
4. A BOM

Basic Design Specification

The equipment is to be interfaced to the magnet via a set of cables through connectors. Jlab will splice the cables feeding the control rack with connectors mutually agreed upon and documented by Vendor. JLAB shall test and operate the existing system once the connectors have been installed to ensure proper operations have been maintained. Vendor shall design rack(s)/ panel(s) with panel mounted connectors to mate to the existing cabling. Signals from all sources shall flow through the panel mounted connectors to 1-for-1 terminal blocks. The signals will then be routed through signal conditioners and actuators predominantly to PLC I/O. Terminal blocks shall be the modular DIN rail variety with large labeled separators. Single and multi level terminal blocks shall be used to efficiently distribute through 3 level terminal blocks to provide for paired signals with power and ground as appropriate. Signals with redundancy shall be routed to 2 level terminal blocks with redundant signals wired directly below the primary signals. Vendor shall work closely with 3 PCO to design and document the system.

Work Flow

The work shall be performed in a progressive manner, with each step reviewed before proceeding.

1. Agree on the specific implementation of the JLAB drawing standards.
2. Design the MIB showing physical size and terminal block arrangement specifying the terminal block signals. Ensure the signal list is complete and any resulting issues have been resolved. Have the design checked and approved.
3. Draw a block diagram showing the various signals and how they flow from the devices through the MIB to the MCS. Resolve any issues and have the system approved.
4. Schematically document the existing device cables and connectors to the MIB.
5. Schematically document the complete MCS detailing its connection to the MIB through existing cables and to the PLC I/O through new cables. Iterate until the documentation is thoroughly checked and approved.
6. Submit the complete documentation set and BOM for final approval.

All drawings to start from D00000-09-05-0001.

The documents accompanying this SOW include:

1. JLAB Drawing Standards (sent separately by fax)
2. Preliminary HMS Solenoid control Signal List.