



**REQUEST FOR PROPOSALS
TECHNOLOGY INTEGRATOR
PRE-INSTALLATION, INSTALLATION
& COMMISSIONING SERVICES**

DATE ISSUED: November 30, 2015

THE NEBRASKA BOARD OF REGENTS

for and on behalf of

UNIVERSITY of NEBRASKA MEDICAL CENTER (UNMC)

REQUEST PROPOSALS FOR:

**GLOBAL CENTER FOR ADVANCED INTERPROFESSIONAL LEARNING BUILDING
P-15050**

DUE DATE/ TIME: Thursday December 17, 2015 BY 2:00 PM CST

Deadline for Inquiries
Time and Date Set for Submittal

Thursday December 10, 2015
Thursday December 17, 2015

**REQUEST FOR PROPOSALS (RFPs)
FOR
TECHNOLOGY INTEGRATOR**

GLOBAL CENTER FOR ADVANCED INTERPROFESSIONAL LEARNING BUILDING

INFORMATION AND INSTRUCTIONS TO CONTRACTORS

1 GENERAL INFORMATION

- 1.1 The University of Nebraska intends to procure a qualified Technology Integrator (TI) for the technology integration of multiple highly complex 3D, virtual immersive reality (VIR), holographic, audio/visual, information technology components, advanced simulation technology, network communications and surgical skills technology for the Global Center for Advanced Interprofessional Learning Building (Project) to be constructed on the midtown campus of the University of Nebraska Medical Center in Omaha, Nebraska. The project will provide a new multi-level structure of approximately 134,000 square feet to support the activities of the iEXCELSM and 56,000 square feet of structured parking (about 120 stalls) below the building for a total area of 190,000 square feet.

The TI will be responsible for the program validation, equipment selection, systems-level design, procurement, installation, and commissioning of the technologies listed above to create realistic environments for both individual and interprofessional learning and have tele-education, telepresence (visualization) and tele-health networking capabilities. The TI will also be responsible to prepare the building and technology so that communication occurs between each room, each floor and from the Project to other buildings across the state.

The estimated technology cost is \$24,000,000.

- 1.2 The Statement of Qualifications (SOQ) must be submitted electronically via email, and received by UNMC Facilities Management and Planning at craig.ellis@unmc.edu, by Thursday December 17, 2015, 2:00 PM CST
- 1.3 Questions pertaining to the selection process should be directed to Craig P. Ellis, AIA, UNMC Facilities Management and Planning at craig.ellis@unmc.edu. Questions must be received prior to 1:00 PM CST on Thursday December 10, 2015.
- 1.4 The University of Nebraska shall not be held responsible for any oral instructions. Any changes to this Request for Proposals (RFP) will be in the form of an addendum, which will be furnished to all registered RFP holders by posting on the UNMC Facilities website at www.unmc.edu/facilities.
- 1.5 The University of Nebraska reserves the right to reject any or all SOQs, to waive any informality or irregularity in any SOQ received, and to be the sole judge of the merits of the respective SOQs received.

1.6 The Project description is:

The Owner's team has developed a unique and innovative proposal to seamlessly amalgamate otherwise disarticulated technologies into a new paradigm of teaching. But, as with all visionary ideas, the execution and integration of the plan will require a partner that has a multidisciplinary skill-set and approach to technology integration and has experience globally. There must be a demonstrated willingness to "sit at the table" to collaborate with members of the design and engineering team, stakeholders, which include administrative leadership, purchasing, end users and information technology support staff during the selection and integration of technologies. The goal is to select an organization whose culture will be compatible (i.e. customer driven, responsive, innovative); and an organization that understands the project sustainability goals and responsive to assisting with these goals (i.e., supports roundtable, innovation awards, and R&D). An organization that understands that their success is tied to your success. This also includes the willingness to work with Owner's in the development and assurance of achieving project measures of success.

The Owner is seeking a TI that has specific experience with incorporating Advanced Visualization including 3D / Virtual Immersive Reality and holographic technologies, as used in education, healthcare, manufacturing, aviation, automobile, oil and gas, and entertainment industries, and military simulation. Experience with the integration of other vendors (simulation technology, including simulation capture systems and storage and surgical visualization – for example) will be critical to the success of the program.

Another area of experience that will be highly regarded is experience with Audio Visual solutions and Video Conferencing integration which includes network design and other unified communication expertise. Sufficient bandwidth to allow remote connectivity and broadcasting to and from the sites (with little to no delay) at this level will require significant expertise, especially if the data to be transmitted is highly visual.

Another key area will be empirical engineering knowledge for designs in intraoperative surgical suites, specialized procedure rooms, interactive medical collaboration, clinical audio video networks, monitored care and tele-health presentation systems are also a plus. Designing sufficient bandwidth (with little to no delay) to allow remote connectivity and broadcasting to and from multiple sites is critical.

Additionally, specific experience with benefits that can be derived from Digital Media solutions such as those used for executive communications, digital signage, student and public interaction or safety and security alerts.

It is critically important that all technologies incorporated are viewed in total and not as individual "systems within a system" and whenever possible, the technologies must be compatible and interconnected.

TI to have knowledge and experience in the design and integration of advanced educational technologies involved in the creation of comprehensive simulation and experiential learning center that includes:

- Computer based simulations
- E-learning - mobile and other devices

- Capabilities for pre and post testing of competencies
- Human patient simulators
- Simulation capture systems
- Electronic portfolios
- Visualization – including 3D and Virtual Immersive Reality (VIR)
- Holographic technology – including tele-presence
- Web-based clinical diagnostic programs
- Integration of the simulation technologies
- Remote access capabilities

The ultimate goal is to ensure that all the technology is interconnected thereby incorporating the latest trends in next generation of clinical simulation centers and technology. A technical team will preferably offer a skill mix of network, communication and collaboration solutions and have the ability to offer an end-to-end support model.

- 1.7 The TI services will be performed in two phases with two separate contracts. Phase I and the first contract will include the pre-installation services and the preparation and submission of the Guaranteed Maximum Price (GMP). Phase II and the second contract will include complete installation and commissioning services for the Project.
- 1.8 The TI will be selected on the basis of demonstrated competence and qualification for the type of services required with price as a factor, and thereafter the University will negotiate a contract for the pre-installation services at a fair and reasonable fee with the firm evaluated to provide the best value to the University.
- 1.9 The TI will be an integral member of the Project Team, consisting of the TI, representatives from the University, the Architect, Building Contractor, key design assist subcontractors and other consultants as required. Generally, it will be the responsibility of the TI to integrate the design and installation phases, utilizing skills and knowledge of design and general contracting, to provide designs, value engineering and constructability reviews, develop schedules; prepare detailed project installation estimates; study labor conditions; and, in any other way deemed necessary, to contribute to the development of the Project during the pre-installation/design phase.

The TI must understand the project’s sustainability goals and be responsive to assisting with these goals. Generally, it will be the responsibility of the TI to integrate the design and installation of multiple systems supplied by multiple vendors utilizing skills and knowledge of design and general contracting, to work collaboratively with the Project Team to provide design, code analysis, value engineering and constructability reviews, develop schedules; prepare detailed project installation estimates; and, in any other way deemed necessary, to contribute to the development of the Project during the pre-installation/design phase

- 1.10 The TI assumes installation risk and has direct authority over the technology subcontractors. The TI will act as the University’s fiduciary and have a relationship of trust and confidence between itself and the University. The Project will be an “open book” job whereby the University may attend any and all meetings of the TI firm relating to the Project and have access to any and all books and records of the TI relating to the Project.

2 - ANTICIPATED SCOPE OF WORK

- 2.1 After being selected, the TI will execute a contract with the University to provide pre-installation services of program validation, equipment selection, systems-level design and procurement during the design phase of the project as follows:
 - 2.1.1 TI will be a part of the Project Design Team and participate with the University staff and the Architect during Project development. Participation may include leadership and overall team coordination.
 - 2.1.2 TI will provide Interdisciplinary Coordination
 - 2.1.3 TI will review of Codes and Standards
 - 2.1.4 TI will test and validate the Program Statement
 - 2.1.5 TI will Identify Opportunities for Economy
 - 2.1.6 TI will Identify and Coordinate Facilities Tours
 - 2.1.7 TI will provide value analysis services, value engineering and offer cost savings suggestions and best value recommendations.
 - 2.1.8 TI will provide technology planning and scheduling.
 - 2.1.9 TI will provide systems-level design and technology selection
 - 2.1.910 TI will provide constructability studies and reviews.
 - 2.1.11 TI will provide installation cost models, estimates based on marketplace conditions, and cash flow development and analysis.
 - 2.1.12 TI may be requested to manage a technology subcontractor design assist process during the pre-installation phase.
 - 2.1.13 TI will assist in the coordination of Contract Documents
 - 2.1.14 TI will coordinate with Architect/Engineer and Building Contractor
 - 2.1.15 At the completion of the design or at any earlier time as required by the University, TI will submit a Guaranteed Maximum Price (GMP) to the University.

- 2.2 After TI has submitted a GMP acceptable to the University, TI and University intend to execute a second contract for complete installation services for the installation of the project. The TI will assume the risk of delivering the Project through a guaranteed maximum price contract. The TI will be responsible for installation means and methods technology procurement and commissioning of the technology equipment.

3 - STATEMENT OF QUALIFICATIONS SELECTION CRITERIA

- 3.1 The TI will be selected through a qualification-based selection process. Firms interested in providing technology integration services must submit a Statement of Qualifications (SOQ) that addresses the following evaluation criteria. Applicants are encouraged to organize their submissions in such a way as to follow the general evaluation criteria listed below. Information included within the SOQ may be used to evaluate your firm as part of any criteria regardless of where that information is found within the SOQ. Information obtained from the SOQ and from any other relevant source may be used in the evaluation and selection process.

- 3.2 Cover Letter (1-page) containing at a minimum:

Company name, contact name, address, fax number, and email address

- 3.3 Technical Qualifications Criteria

3.3.1 **General Information**

Description of firm/team

Legal company organization; organization chart with names

List of applicable Nebraska licenses

3.3.2 **Relevant Firm Experience**

(20 points)

- a. Applicant's overall reputation, service capabilities and quality as it relates to this project.
- b. List and briefly describe 3-5 comparable projects completed by your firm or currently in progress; include your firm's role, and discuss contract amendment history, if applicable. For each project, include: contract value and installation value (original value plus contract amendments, if applicable), project owner, project location, contact name and title, address, current/accurate telephone number, fax number, and email address (if available).
- c. A minimum of three referrals and references from other agencies and owners. If possible, references should be from the projects listed above.
- d. List and describe any litigation; arbitration; claims filed by your firm against any project owner as a result of a contract dispute; any claim filed against your firm; termination from a project.
- e. Applicant's capacity and intent to proceed without delay if selected for this work.
- f. Type and amount of self-performed work.
- g. Describe your experience with and ability to provide the following:

- High level of 3D, Virtual Immersive Reality, and Holographic equipment, such as the systems planned for the 3D and Virtual Reality Studio that enables visitors, students and staff to easily navigate systems and view all data through sub-systems working in complete harmony.
- Intraoperative surgical suites, specialized procedure rooms, interactive medical collaboration 3D visualization, clinical audio video networks, A robust hub-and-spoke network. It will be necessary to interconnect at least 8 additional site.
- Detail existing network infrastructure
- Identify network deficiencies which may impact a University wide VTC or UC deployment and provide resolution of identified deficiencies
- Instruct various network administrators on how and what reports need to be generated in order to build a useful network assessment
- Provide communication services for network design, management and monitoring.

3.3.3 Team Experience & Qualifications

(20 points)

- Describe each team member's position within the firm. Provide resumes of each proposed team member in Appendix A. List professional continuing education.
- Briefly describe each team member's role on this project.
- Provide "team" experience working together on similar projects.
- Identify proposed technology subconsultants/subcontractors, and your method of technology subconsultant/subcontractor selection, if applicable. Attach a proposed Technology Subconsultant/Subcontractor Selection Plan as part of Appendix A.
- Explain your understanding of, and experience with, the TI Delivery Method.
- Describe the capability, depth and national/global experience in providing services for a world – class simulation facility in the areas of:
 - Advanced Simulation
 - Video Conferencing
 - Digital Media Solutions
 - Medical/Clinical Connectivity

3.3.4 Project Understanding and Approach

(10 points)

- Describe your understanding of the project
- Describe your willingness to work collaboratively with other suppliers of technology such as surgical, holographic, 3D/VIR and simulation systems.
- Describe your willingness to allow the Owner to manage the design and end-user process with a single POC.
- Describe your capability to design a system that allows multiple systems to operate together with a high level of cohesion.
- Describe your capability to provide speedy support staff and engineers with a wide range of support options and experience
- Describe your capability to help the Owner validate choices of vendors and components by comparing with benchmarking and best practices.
- Identify and discuss any potential problems during design and installation.
- Identify and discuss methods to mitigate those problems.
- Identify and discuss any potential problems during design and installation.

- j. Identify and discuss methods to mitigate those problems.
- k. Describe the work you anticipate self-performing, and the work you anticipate being performed by subconsultants/subcontractors.

3.3.5 Approach to Project Management (10 points)

- a. Describe your approach to change orders.
- b. Describe your planning, scheduling, estimating, and installation management tools.
- c. Describe your quality control plan, dispute resolution, and safety management.
- d. Describe your approach to coordinating with consultants, building contractor and sub-contractors.

3.5.6 Approach to Building and Integration (10 points)

- a. Identify and discuss your pre-installation process including procurement and fabrication
- b. Identify and discuss your installation process
- c. Capability of designing a system that allows multiple systems to operate together with a high level of cohesion.

3.5.7 Commissioning and Training (10 points)

- a. Describe your approach to commissioning, testing and adjusting the systems
- b. Describe your capability and approach to systems training
- c. Describe your experience and resources available to provide and train the simulation staff to run the equipment and conduct basic trouble – shooting and offer training for identified “super users.”

3.5.8 Support and Service (10 points)

- a. Describe your support and service capabilities
- b. Describe ability to offer ongoing support over a number of years (3-5) following complete installation.

3.3.9 Other Factors (10 points)

- a. Current workload and ability to proceed promptly.
- b. Willingness to abide by the University’s standard form Agreements with few or no objections or changes.
- c. Describe your culture for instance, willingness to be customer driven, responsive, innovative and nimble; an organization that understands UNMC’s business goals and is responsive to assisting in these goals.
- d. Interest in crafting an agreement in the context of a long-term collaborative relationship that allows for mutual benefit (private/public partnerships) to ensure the long - term success of the technology selection and integration, as well as the success of both entities.

- e. Provide statement regarding your assurance that this engagement will not result in a conflict of interest.
- d. Relevant factors impacting the quality and value of work.

4 - SUBMITTAL REQUIREMENTS

- 4.1 The SOQ shall include a one-page cover letter plus a maximum of fifteen (15) pages to address the SOQ criteria specified in Section 3 (excluding Resumes and Technology Subconsultant/Subcontractor Selection Plan). Table of Contents and section divider pages do not count towards the total page count. Resumes for each key team member shall be limited to no more than two pages. Resumes and Technology Subconsultant/Subcontractor Selection Plan shall be attached as Appendix A.
- 4.2 One electronic copy (.pdf preferred) of the Statement of Qualifications and Appendix A must be submitted to UNMC via email at craig.ellis@unmc.edu and received by 2:00 PM CST on Thursday December 17, 2015.
- 4.3 Failure to comply with the following criteria may be grounds for disqualification:
 - Receipt of submittal by the specified cut-off date and time.
 - The number of originals and/or copies of the submittal specified.
 - Adherence to maximum page requirements.
- 4.4 Adherence to the maximum page criteria is critical; each page side (maximum 8 1/2" x 11") with criteria information will be counted. Pages that have photos, charts and graphs will be counted towards the maximum number of pages.

5 - SELECTION PROCESS AND SCHEDULE

- 5.1 A minimum 5-member Project Evaluation Board will evaluate each Statement of Qualifications (SOQ) according to the above criteria and select a minimum of three finalists that will be Short Listed for the project. The Short List firms will meet with the Project Evaluation Board for interviews. The purpose of the interview will be to expand on the information provided in the SOQ, not to repeat information already provided. Those firms selected for the Short List will be provided additional instruction by the University. Those firms not selected for further consideration will be notified.
- 5.2 The following tentative schedule has been prepared for this project. Firms interested in this project must be available on the interview meeting date.

SOQs due:	Thursday December 17, 2015
Firms notified for interview:	Friday January 8, 2016
Interviews:	Friday January 15, 2016

- 5.3 Following the interviews the Project Evaluation Board will determine a ranking for each Short List firm based on the published criteria in 3.3 of this RFQ. If additional questions arise during review of the SOQ, the questions and points awarded will be sent to the Short Listed firms with their additional instructions. Consideration will be given to both the written Statement of Qualifications

and any oral presentations or interviews. No other factors or criteria will be used in the qualification ranking.

- 5.4 The highest ranked firm will be recommended to the Vice President, Business and Finance for contract award.
- 5.5 Requests for debriefings or to review Statements of Qualifications submitted, shall be made in writing to the University. All information submitted by firms and related Project Evaluation Board evaluations and rankings shall be considered confidential until after contract execution and award by the Board of Regents.
- 5.6 The University will enter into negotiations with the selected firm and execute a contract upon completion of negotiations of pre-installation services for Board of Regents approval. If the University is unsuccessful in negotiating a contract with the highest scoring team, the University may then negotiate with the second or third highest scoring team until a contract is executed, or may decide to terminate the selection process.
- 5.7 At the conclusion of the Pre-Installation Services or earlier, after the selected TI has submitted a installation GMP, the University will execute a contract with TI for complete installation services if the proposed GMP is acceptable to the University and upon completion of negotiation of contract terms for the Board of Regents approval. If the University is unsuccessful in negotiating an installation contract with the TI, the University may decide to terminate the selection process and award installation through the competitive low bid process.

6 - ATTACHMENTS

- 6.1 Technology Integration Services Contract
- 6.2 Program Statement - as approved by the Board of Regents of the University of Nebraska on
October 9, 2015
- 6.3 Campus Building and Parking Map