Request for Proposals
Wireless Network Upgrade
E-Rate Funding Year 18 (2015-2016)
Form 470 Posted: January 20, 2015

BIDS MUST BE RECEIVED BY:
10:00AM Mon, March 2, 2015

Bids MUST be delivered to:

UChicago Charter School
1313 E 60th Street
Attn: Damon Warren
Chicago, IL 60637
Phone: 312-533-8624

OR

Damon Warren
erate@uei-schools.org

Late Proposals will not be considered.

No Faxed or Verbal Bids will be considered.
E-mail messages larger than 10MB may not be received.
Technical issues, or errors, will not be considered when determining eligibility of submission.
The University of Chicago Charter School (UChicago Charter) is a neighborhood charter school on the South Side of Chicago, operated by the University of Chicago Urban Education Institute. Comprised of four campuses spanning all grades from early childhood through high school, UChicago Charter is a PreK to 12 superhighway that empowers students to RISE to excellence at every level, cultivating critical thinkers and leaders for success in college and in life.

North Kenwood/Oakland (NKO), founded in 1998, educates children from prekindergarten to grade five. Donoghue (DON) was created in 2005 and also serves children from prekindergarten to grade five. Carter G. Woodson (CGW), launched in 2008, provides schooling to children from grade six through eight. Woodlawn (UCW) was established in 2006 and educates students from grade six to grade twelve.

Project Description:
UChicago Charter is seeking to update and expand wireless coverage throughout its four (4) campus locations. Existing infrastructure is currently in place, but is inadequate (due to age and capacity) to meet the needs of the school. This project will add an “overlay” network, reusing as much of the existing cable paths and IDF locations as possible, to support a newly installed wireless system. Device counts, included below, are given as a guide only, and the responding bidder should include detailed specifications, cabling plan drawings, and predicted wireless coverage/density maps, along with a narrative, to explain their solution.

An on-site walkthrough is strongly recommended to assist with bid submissions. Schematic drawings are attached to this proposal for informational purposes only.

To this end we are seeking proposals for installation & configuration of a robust wireless networking solution including:

- 180 802.11ac Capable Enterprise-Class Wireless Access Point Ports w/ Central Controller,
- 180 CAT6 runs between stackable switches and WAPs (varied lengths)
- 4 Chassis-Based, 10Gbit capable Network Switches,
- 22 Stackable 10Gbit capable Network Switches,
- 10Gbit Fiber-Optic Backbone to Interconnect MDF & revised IDFs
- Uninterruptable Power Supplies (UPS) to support Network Electronics
- all necessary patch panels and cabling,
- all necessary rack & mounting solutions,
- all necessary faceplates and jack terminations,
- all necessary labor, design & engineering coordination,
- labeling, testing & certification of all terminations,
- 1-year of maintenance services bundled within the cost of the equipment including configuration modifications.
A. MINIMUM TECHNICAL SPECIFICATIONS

1. Chassis-based Network Switch(es)
   The chassis-based network switch shall include:
   - Layer 3 Networking Services
   - Support for at least 64 VLANs
   - Support for “hot-swappable” component exchange
   - Support for web-based GUI administration from modern Mac or Windows workstations
   - 802.3af/POE support on all ports
   - Power supplies to support all connected WAPs via 803.af/at (POE/POE+)
   - Provisions for Gigabit Ethernet Over Copper on all RJ-45 ports
   - Provisions for 10Gbit Backbone connectivity
   - Interface to match fiber backbone connectors
   - Comparative Product or equivalent model: hp ProCurve 5406zl

2. Stackable Network Switch(es)
   The stackable network switch shall include:
   - Layer 3 Networking Services
   - Support for at least 64 VLANs
   - Support for “hot-swappable” component exchange
   - Support for web-based GUI administration from modern Mac or Windows workstations
   - 802.3af/POE support on all ports
   - Power supplies to support all connected WAPs via 803.af/at (POE/POE+)
   - Provisions for Gigabit Ethernet Over Copper on all RJ-45 ports
   - Provisions for 10Gbit Backbone connectivity
   - Interface to match fiber backbone connectors
   - Comparative Product or equivalent model: hp ProCurve 5134-24G

3. Wireless Network Electronics (WAP & Controller)
   The wireless access point (WAP) shall provide:
   - Enterprise-class 802.11a/b/g/n/ac networking capacity
   - Included 802.11n/ac (5GHz) & 802.11b/g (2.4GHz) radios in one unit
   - Simultaneous operation of both radios for separate SSIDs (MIMO)
   - Support for single-port 802.3af/POE as its sole power source
   - Support for up to 16 VLANs
   - Support for up to 128 connected users per WAP
   - Support for centralized management in conjunction with a “controller”
   - Comparative Product or equivalent model: Aruba AP-225

   The wireless controller shall provide:
   - Centralized configuration of all LAN-connected WAPs
   - SSH and/or HTTPS administration connectivity
   - Management of, and communication on, up to 16 VLANs
   - Management of at least 200 WAPs
   - Comparative Product: Aruba 7210 or “Cloud” Offering
4. Network Cabling
All specified cabling shall be plenum rated CAT6 (copper) or 50-micron (fiber). Armored fiber is the preferred option for the backbone fiber connections. Copper shall be terminated in CAT6 RJ-45 patch panels using TIA/EIA-568-B specifications. Fiber patch panels & patch cable terminations shall use LC terminations. All cabling and terminations shall be completed with products manufactured in the US from mainline manufacturers (BerkTek, CommScope, Leviton or similar).

Upon project completion installer must test & certify that all installed cabling, jacks & terminations meet respective specifications. Upon project completion, installer will provide owner with said test results in a CSV or Microsoft Excel format. Upon project completion, installer will provide owner with edited building drawings showing the location of all installed components including cabling paths, WAP locations, and switch locations.

Any installation limitations that would prevent the use of specified items should be clearly explained in the bid documents.

5. Jack, Patch Panel and Cable End Terminations
Unless otherwise approved in writing by the Owner, all jack and cable terminations shall follow the T568B spec, with the exception of any necessary cross over cables. Leviton is the preferred provider of patch panels, jacks and other termination points.

B. BID REQUIREMENTS & CONDITIONS
1. USF FUNDED PROJECT (E-RATE)
i. This project is being bid under the program guidelines of the Universal Service Funds E-Rate program. Bidder shall be a registered vendor with the “E-Rate” program. Bid package should explicitly list the Bidder’s SPIN number in the submitted materials. Failure to acquire and/or include the Bidder’s SPIN number may result in rejection of the bid.

ii. A funding commitment decision letter (FCDL) may not be received prior to the dates listed in the timeline described under the section “Scheduling of the Work”. In the absence of an FCDL, the owner may, at its option, proceed with work under the BEAR guidelines of the “E-Rate” program or forgo any or all portions of the proposed work. This decision is solely at the Owner’s discretion. The owner will notify the winning Bidder of the funding decision outcome, and the Owner’s intentions with regard to commencement of the project, by July 15, 2015.

2. PROJECT MAY BE SEPARATED INTO COMPONENT PARTS
The Owner, at its option, may accept bids to complete portions, but not necessarily all of the work listed in the Project Description. If package pricing is included in a Bidder’s submitted documents, the conditions and cost considerations of that package must be explicitly listed in the project budget put forth by the Bidder. If the owner is unable to interpret Bidder’s submission with respect to component parts of the Project Description this may result in rejection of the bid.
3. JOBSITE IS A CPS OWNED FACILITY
At the time of commencement of this Project, the work will be done in Chicago Public School (CPS) owned facilities, leased by UChicago Charter. CPS may selectively impose restrictions, guidelines, and work review at its discretion, and the selected bidder will be required to work within those limitations. Bidders should become familiar with applicable portions of the CPS Infrastructure Handbook, available online at http://goo.gl/dfgNxG, in particular as it relates to firestopping, communications and electrical.

4. SCHEDULING OF THE WORK
i. The successful Bidders will be required to commit themselves to meeting the Owner/Contractor schedule and will be responsible for 1.) staffing the Project accordingly, 2) arranging all material deliveries, and 3) providing an installation schedule including time-of-day access requirements, such that sufficient time is allotted to complete the Project on-time and on-budget. Please indicate on your proposal the length of time required for your scope of work and the means and methods used to complete said work.

ii. The project is being funded through the Universal Service Fund program (aka E-Rate). As such, work on this project cannot commence prior to April 1, 2015. All four (4) campus locations are scheduled to re-open for students on August 3, 2015 and network installation must be completed prior to this date. Please note in your proposal any assumptions or conditions that have material impact on meeting this deadline.

5. SITE VISITS TO ASSESS CONDITIONS AFFECTING THE WORK
i. It is the responsibility of the Bidder to visit the job site in order to examine and become familiar with local conditions under which the work is to be performed, which may impact the completion, scheduling and/or the cost of the work. Conditions observed should be correlated with the requirements of the Contract Documents. Local conditions include, but are not limited to: the existing site, existing structures, (if any) obvious obstructions not shown on the Bid Documents (drawings), etc. Failure to familiarize themselves with the local conditions shall in no way relieve the Bidder from the responsibility for properly estimating the difficulty or cost of successfully performing the work, and shall not be construed as a basis for subsequently initiating a change in the Contract Amount or Time allotted for job completion.

ii. Two site visits will be scheduled for vendors to have access to all four (4) campus locations. The first day for site visits will be on Monday, February 16, 2015. The second day will be on Wednesday, February 25, 2015. Please review the attached on-site walkthrough schedule for details.

On-site walkthrough schedules will be posted online at http://www.uchicagocharter.org/eraterfp2015.

7. WARRANTY
i. Contractor hereby warrants and guarantees: all materials will be new unless otherwise approved by Owner; that all Work shall be performed in good and workmanlike manner; that the Work is in compliance with all applicable laws, ordinances, and regulations; that the Work shall conform to the Agreement and Contract Documents; and that the Work shall be free from defects as determined by Owner. Any Work not in conformance with this guarantee shall be considered defective (“Defective Work”).
ii. In addition to Contractor’s warranty obligation in the above paragraph, Contractor agrees to repair or replace, at Owner’s option, any Defective Work (including, without limitation, materials) for a period of one (1) year from the actual or scheduled Date of Final Completion, whichever is later, or early termination of this Agreement is herein provided, and during that time shall replace or repair to Owner’s satisfaction any Defective Work. Contractor shall repair or replace Owner’s materials, equipment, goods, and other Owner’s property damaged as a consequence of Defective Work, all without any cost to Owner. If Contractor performs or causes to be performed any corrective work under this paragraph, the one (1) year call-back period shall begin anew from the date of Owner’s acceptance of the corrected work for that work. The provisions of this paragraph shall survive completion of the Work to be performed under, or the earlier termination of, this Agreement. The provisions of this paragraph shall not act as a time limitation on the obligations of Contractor in above paragraph.

8. INSURANCE REQUIREMENTS
Chicago Public Schools (CPS) standard insurance requirements will be required which include, but are not limited to, Certificate of Insurance identifying the additional insured as necessary. The insurance carrier must provide the standard CG 2010 form (1985 or 2001 edition(s) with On-Going and Completed Operations) and any associated cost should be included in your pricing.

9. BONDS
Bid and performance bonds will be required. Please provide the cost to provide a bond in your proposal broken out separately.

10. GENERAL REQUIREMENTS
Any scaffolding and hoisting must conform to any and all code requirements, including, but not limited to, OSHA et al and is the sole responsibility of each subcontractor. All bidders are to account for all their hoisting, coring, layout, patching, firestopping, inspections, pumping, scaffolding, secure on-site storage, and clean-up requirements. Exclusion of any of the above may be cause for disqualification of a bid.

11. CLEAN-UP
Bids must include daily clean up of debris and materials generated by the Subcontractor’s work and their assigns. Clean up shall be considered a daily requirement so as to ensure that the work areas are clean, orderly, and above all else, safe. Subcontractor to provide for all trash disposals required while performing Scope of Work in proposal.

12. TAXES
Bids shall EXCLUDE any and all Federal, Excise, State and Municipal occupations (sales) and/or use taxes required in connection with the Scope of Work as the project is tax exempt. Tax Exempt certificate will be provided to the winning bidder at the time of project inception.

13. TERM OF CONTRACT
The Contract shall commence upon contract execution and end September 30, 2016. Owner shall have the option to extend the Contract for one (1) additional one-year period under the same terms, conditions and prices contained within the Contract. Owner reserves the right to extend or abbreviate the Contract period if such extension or abbreviation is necessary to make the Contract term coincide with the “funding year” or “implementation period” as defined by the Universal Service Administrative Company (“USAC”).
i. Owner has a right to cancel or reduce the scope of any project for which E-Rate funding has been requested.

ii. Owner reserves the right to deny any or all proposals associated with this RFP, even with SLD funding approval.

14. PROPOSAL INSTRUCTIONS

Prices must be held firm for the duration of the E-Rate Year 18 fiscal year ending September 30, 2016 or until all work associated with the project is complete (including any SLD approved extensions).

**Suggested Proposal Format**

The Vendor’s proposal should, at a minimum, include the following:

1. Provide your Vendor Name, FCC Registration Number, Address, Certificate of Insurance, and SPIN.
2. Provide the Date of Submittal to this RFP
3. Provide a profile of the business organization, resources, capabilities and experience with the proposed systems.
4. Provide a description of similar E-Rate installations and/or service contracts (if any)
5. Provide a description of similar experience with other charter and/or public schools (if any)
6. Provide information relating to your company’s manufacturer certifications
7. Provide information regarding personnel qualifications.
8. Provide a cost proposal and description for the products and/or services described above in the Scope of Work.
   a. Separately distinguish between and itemize the cost of E-rate eligible and ineligible products and installation costs, if any.
   b. All responses shall provide detailed part numbers, descriptions and unit pricing as requested in the Internal Connections Template. Vendor shall clearly identify any goods or services not considered “eligible items” under current E-Rate guidelines.
   c. Vendor should group the component types and provide a project subtotal for 1) wireless, 2) switching and 3) cabling components.
   d. In addition to any vendor formatted pricing information or proposals, vendor should also include a completed Item 21 attachment by completed the template provided on the SLD website (See Template - Internal-Connections-Template-V15-1). Instructions on how to fill this out is provided at [http://www.usac.org/_res/documents/sl/pdf/forms/FCC-Form-471-Funding-Request-Template-instructions.pdf](http://www.usac.org/_res/documents/sl/pdf/forms/FCC-Form-471-Funding-Request-Template-instructions.pdf)
UChicago Charter School – Wireless Network Upgrade – Walkthrough Schedule

UChicago Charter is seeking to update and expand wireless coverage throughout its four (4) campus locations. Existing infrastructure is currently in place, but is inadequate (due to age and capacity) to meet the needs of the school. This project will add an “overlay” network, reusing as much of the existing cable paths and IDF locations as possible, to support a newly installed wireless system. Device counts, included below, are given as a guide only, and the responding bidder should include detailed specifications, cabling plan drawings, and predicted wireless coverage/density maps, along with a narrative, to explain their solution.

An on-site walkthrough is strongly recommended to assist with bid submissions. Schematic drawings are attached to this proposal for informational purposes only.

On-site walkthroughs will start at the Donoghue Campus. The group will then visit each subsequent campus until all sites have been visited. On-site time at each location will last approximately 90 minutes. As all of our campus locations are located in close proximity to one another, only fifteen (15) minutes of travel time will be allotted for movement between locations.

To assist vendors in developing the most accurate possible bid, UChicago Charter School will make its campuses available for on-site walkthroughs on two (2) separate dates:

**Monday, February 16, 2015**
8:00AM, Donoghue Campus

&

**Wednesday, February 25, 2015**
8:00AM, Donoghue Campus

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Campus</th>
<th>Activity</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00AM</td>
<td>8:30AM</td>
<td>DON</td>
<td>Project Overview &amp; Orientation</td>
<td>30 Minutes</td>
</tr>
<tr>
<td>8:30AM</td>
<td>10:00AM</td>
<td>DON</td>
<td>Site Walkthrough</td>
<td>90 Minutes</td>
</tr>
<tr>
<td>10:00AM</td>
<td>10:15AM</td>
<td>DON</td>
<td>Drive to CGW Campus</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>10:15AM</td>
<td>11:45AM</td>
<td>CGW</td>
<td>Site Walkthrough</td>
<td>90 Minutes</td>
</tr>
<tr>
<td>11:45AM</td>
<td>12:15PM</td>
<td>CGW</td>
<td>Lunch – On Your Own</td>
<td>30 Minutes</td>
</tr>
<tr>
<td>12:15PM</td>
<td>12:30PM</td>
<td>NKO</td>
<td>Drive to NKO Campus</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>12:30PM</td>
<td>2:00PM</td>
<td>NKO</td>
<td>Site Walkthrough</td>
<td>90 Minutes</td>
</tr>
<tr>
<td>2:00PM</td>
<td>2:15PM</td>
<td>UCW</td>
<td>Drive to UCW Campus</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>2:15PM</td>
<td>3:45PM</td>
<td>UCW</td>
<td>Site Walkthrough</td>
<td>90 Minutes</td>
</tr>
<tr>
<td>3:45PM</td>
<td>4:00PM</td>
<td>UCW</td>
<td>Final Q&amp;A</td>
<td>15 Minutes</td>
</tr>
</tbody>
</table>

1 Timeline listed is advisory only, and may be adjusted to meet the needs of participants traveling with the group. Late arrivals should contact Damon Warren @ (312) 533-8624 for the latest information on group location and on-site specifics.
<table>
<thead>
<tr>
<th>Campus Location</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Kenwood/Oakland Campus (NKO)</td>
<td>1119 E 46th Street</td>
<td>773.536.2399</td>
</tr>
<tr>
<td>Carter G. Woodson Campus (CGW)</td>
<td>4444 S Evans Avenue</td>
<td>773.624.0700</td>
</tr>
<tr>
<td>Donoghue Campus (DON)</td>
<td>707 E 37th Street</td>
<td>773.285.5301</td>
</tr>
<tr>
<td>Woodlawn Campus (UCW)</td>
<td>6420 S University Ave</td>
<td>773.752.8101</td>
</tr>
</tbody>
</table>

Map of CAMPUS LOCATIONS: [Map Image]
Woodlawn Campus – 6420 S University Ave – Floor Plan – Floor 3