

REQUEST FOR PROPOSAL

W.E.B. DuBois Remote Learning Project

W.E.B. DuBois Learning Center
5501 Cleveland
Kansas City, MO. 64130

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Request for Proposals

Respondents to this Request for Proposal (RFP) will be expected to propose solutions that best meets the needs and specific functional requirements of the W.E.B. DuBois Learning Center, to be referred to henceforth as the DLC. The DLC will assist the respondent in his/her efforts by providing information as requested. However the responsibility for the proposed solutions addressing this proposal shall remain entirely with the respondent. Please direct all questions concerning this RFP to the attention of:

Harrison C. May
Director of Computer Science

W.E.B. DuBois Learning Center
5501 Cleveland
Kansas City, MO. 64130

Voice: (816) 523-3339
Day: (816) 545-0397
Data: (816) 523-5343

Purpose:

The DLC is issuing this Request for Proposal to solicit vendor bids for material and labor require for the successful implementation of a project to connect inner city satellite locations to the DLC. Terminal server and thin client technology will be utilized at to maximize and distribute resources and expertise to the community. This project is geared to raise computer and educational skill levels in this community by emerging this Digital Divide at-risk community in Information Technology. Currently, the DLC has entered into a partnership with Sprint, GE, Full Employment Council (FEC), Community Resource Network (CRN), and Blue Cross and Blue Shield (BCBS) to develop Phase 1 of 3 total phased projects. The end result for Phase I will provide 135 Network access points combined at four facilities. Phase III completion will provide 1,200 network access points throughout the Kansas City metropolitan community.

Offertory may provide bids for all of any section, piece of section or the complete proposal. Offertory will furnish the required equipment described in the following sections;

- Data Communication Wiring
- Network Transport

- Infrastructure Servers
- Network Access Units

Priority will be given to offertory whose proposal provides additional partnerships to complete this motivated project. Bids must be received at the DLC no later than 1700, on June 9, 2000. Decision will be made and respondents informed of decision by June 14, 2000. This All equipment must be received by July 23, 2000 in order to ensure equipment can be installed, tested, and operational for the fall, CY2000 school year. This proposal is based on certain assumptions. These assumptions are:

1. Primary network access units will be terminal based to decreased Total Cost of Ownership (TCO) for the project.
2. Total number of network access units for Phase I will be 135.
3. Servers must be able to provide a mixture of WinTel and Unix based applications to network access units.
4. Network transport must seek to limit monthly reoccurring cost driven by local loop charges.
5. Completion of all three phases of the project will connect up to sixty satellite locations with a total of 1,200 Network Access Units.

Background:

The W.E.B. Dubois (Doo Boys) Learning Center (DLC) has provided academic tutoring services to elementary and secondary minority students in the metropolitan Kansas City area since 1973. Although the results cannot be measured by traditional means, most of the students in the Reading, Math, and Science programs are much better off today than they were at initial registration. The DLC is unique in that struggling students become competent and competent students become proficient. At the same time, ALL students are exposed to black professional men and women, such as doctors, lawyers, engineers, architects, scientists, mathematicians, etc., all of whom provide these disadvantaged and under privileged inner-city youths with POSITIVE role models. Thus, the DLC has a very positive image in the community.

The existence of the term, Digital Divide, arises from society looking for answers to solving the problem of under-developed areas being locked out of the information age. Exposure is important to understanding today's technology. DLC and our partners believe that providing computer equipment and access to the Internet at satellites facilities, like housing projects, orphans homes, elderly homes, spiritual facilities, etc. will help to move welfare recipients to employment, improve the quality of life for the elderly, and

prepare today's youth for tomorrow's workplace. We also understand that the time commitment and expertise to successfully accomplish these ambitious goals are limited. Computer savvy individuals are at a premium in today's work force. Equipment and administrative costs can be high. To help achieve these goals, the Center would like to provide Servers that can be centrally maintained and administered, thus cutting significantly the amount of expertise and equipment required by supporting multiple sites. At these sites, a simple network access unit with minimal configuration required (Net Station) would be used as an information access point. This information access point would allow the Center, as a central hub, to be the resource center for such services as:

Distance Learning - By using The Center's maintained Servers and data connections to these remote sites, the DLC can extend it's tutorial coverage to the Net Stations at those sites by using streaming technology to broadcast classroom instruction

Internet Resources – Network access units will enable remote access units to tap into the Internet which will allow the end-user to send and receive e-mail, participate in electronic commerce, gather information for conducting academic or commercial research, etc.

Computer Training - Through the Network access unit, the DLC can provide on-line training in Microsoft Office, Windows 95/98/NT, basic computer operations, etc.

Video Conferencing – Network access units will allow the users to collaborate with individuals throughout the community and country. Youths can link up with others in different regions of the country to share projects, information, points of view, etc.

According to the 1996 local Investment Commission Study, the project neighborhood youth are characterized as living in the largest welfare recipients' area in Jackson County. The area served is located in the heart of the Kansas City MO school district. This school district recently lost accreditation status based on dismal test results.

The DLC Remote Learning Project vision is a three Phase Project that successfully achieves the following:

Phase I

1. Provides 135 information access points to the surrounding community.

2. Provides programs utilizing a desktop system connecting to infrastructure servers, and the Internet to access applications tailored for returning students to academic expectations.
3. Develop current relationship with KCMO city, Swope Park Corridor task force, and school district to assist with development of the processes to facilitate distributed learning programs, access to the most up-to-date information to participates on their education, employment, community services and enjoyment activities.
4. Improve test score for students in the Southeast High School community which encompasses the Brush Creek community in the Kansas City MO school district
5. Provide information training and technology skills to obtain job and help residents escape from welfare rolls.

Phase II

1. Increase information access points in the Swope Park corridor to 400.
2. Increase satellite locations from 3 to 25 sites, including schools and other community facilities.
3. Test score improvement for students in the entire Swope Park of the Kansas City MO schools district.
4. Relationship development and partnerships to deliver information access capabilities for the entire city.
5. Strengthen relationship with school district and parents by providing information access points

Phase III

1. Increase information access points in the Kansas City area to 1200.
2. Increase satellite locations from 25 to 60.
3. Establish framework to assist communities nationally in eliminating the need for terms addressing a notion of the Digital Divide.

Scope of Works:

Offertory will furnish proposal to supply any or all of the required equipment described in the following sections.

DATA COMMUNICATION WIRING

The W.E.B. DuBois Learning Center's Employment Program will accommodate 15 to 25 in school youth. The summer component of this proposal will provide data communications wiring to sites within a one-mile radius of the W.E.B. DuBois Learning Center. Participants will install the required backbone cabling, horizontal cabling, cross-connect products, information outlets, and patch cable assemblies utilizing ANSI/EIA/TIA-568-A\B standard installation techniques. Participant will perform testing and certification of all UTP cabling per Telecommunications System Bulletin (TSB) 67.

Students will wire three satellite facilities to connect to the W.E.B. DuBois Learning Center. They will work with two paid instructors to complete the assignments. These sites are as follows:

W.E.B. DuBois Learning Center, 5501 Cleveland, Kansas City, MO 64130
Covenant Presbyterian Church, 5941 Swope Parkway, Kansas City, MO 64130
St. James Catholic Church, 5900 Swope Parkway, Kansas City, MO 64130
Church of God and Christ, 5600 Swope Parkway, Kansas City, MO 64130

Offertory will provide the equipment required for the youth to provide an end to end cabling system including cabinets, conduit, cables, patch panels, connectors, face plates, patch cords, etc. as stated in the below equipment list. Offertory will ensure that all cabling shall be new, unused, and of current design and manufacture. Cable manufactured more than two years ago will not be accepted. Only plenum rated cabling will be accepted for backbone and horizontal cabling.

This is a two component based program, summer skill training and academic school term supplement, targeted for secondary education youth. Participant will develop academic and technical success skills. The summer program will develop technical skills acquired from installing to the industry standard, communication cable. The academic program will supplement the fall and spring academic school year by providing tutorials services in math and reading. The program will also provide computer based enrichment activities for the participant.

Data Communication Wiring Equipment List

All equipment is listed at it minimum capabilities. All response to items should match that listed as a minimum.

Description	Quantity	UM
Cable Management Relay Rack System	4	Each
Cable Management Wallmount Swing Relay Rack 24"	2	Each
Cable Management Wallmount Swing Relay Rack 48"	4	Each
Cable Punch Tools 66 & 110	50	Each
Cable Punch Tools, Spare Cutting Blades	150	Each
Cable Ties 11"	2000	Each
Cable Ties 4"	2000	Each
Cable Ties 7"	5000	Each
Category 5+ 10' Patch Cables	50	Each
Category 5+ 25' Patch Cables	25	Each
Category 5+ 3' Patch Cables	50	Each
Category 5+ 50' Patch Cables	25	Each
Category 5+ 7' Patch Cables	75	Each
Category 5+ Data Cable Tester	3	Each
Category 5+ Data Communication 48 Port Patch Panels	12	Each
Category 5+ Data Communication Wiring	125,000	Ft
Category 5+ RJ-45 T568 (A&B) Data Jacks (Blue)	300	Each
Category 5+ RJ-45 T568 (A&B) Voice Jacks (Red)	75	Each
Crimp Tools RJ11/45	10	Each
Data Wire Scissors	35	Each
D-Rings	250	Each
Flat Blade Screw Drivers	50	Each
Housings for RJ45 Jacks	300	Each
J-Hooks	300	Each
Ladder Rack	6	Each
Ladders 15 foot	6	Each
Misc. Wire Molding	10,000	Foot
Phillips Screw Drivers	50	Each
Rackmount Power Strips with surge protectors 10 Outlet	6	Each
Sliding Equipment Shelves for Relay Racks	6	Each
Telephone Test Set	3	Each
Tone & Probe Kit	5	Each
Two Channel Light Weight Portable Radio (2 watt with VOX)	6	Each
Vertical Cable Mangers for Relay Racks	16	Each

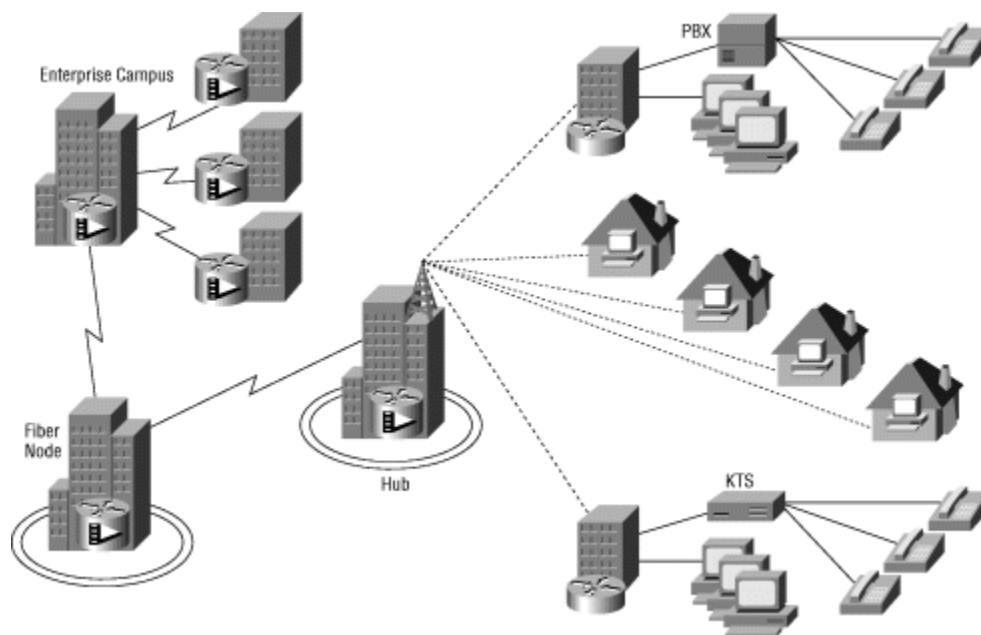
NETWORK TRANSPORT

Equipment in this section is needed to provide the transport to make up the network infrastructure. All equipment will be housed in 19" Relay racks. Necessary mounting equipment and cables should be included in proposal.

This proposal requires three satellite facilities LAN's to be connected to the LAN at the DLC. These sites are as follows:

- W.E.B. DuBois Learning Center, 5501 Cleveland, Kansas City, MO 64130
- Covenant Presbyterian Church, 5941 Swope Parkway, Kansas City, MO 64130
- St. James Catholic Church, 5900 Swope Parkway, Kansas City, MO 64130
- Church of God and Christ, 5600 Swope Parkway, Kansas City, MO 64130

The successful proposal will provide a backbone for connecting new buildings and remote sites to the educational infrastructure to permit tools such as distance learning and two-way, interactive training to reach every student. Below is a diagram from the Cisco uBR7246 or uBR7223 installation and planning guide that can be considered as a logical view of campus environment envisioned.



This campus environment requires high-speed connections between sites to satisfy a LAN-based applications environment. Wireless transport topology is

desired for connecting the DLC to satellite locations due to its ability to significantly reduce or eliminate the recurring cost of leased lines by bypassing local loop charges that could be detrimental to the long-range success of the project. Equipment must comply with 802.11 standards and operate in the unlicensed U-NII band (5.725 to 5.825 GHz). It is desired that each link be encrypted. Selectable encryption methods from none, 40 bit and 128 bit will be rewarded additional points in the selection process

Ethernet is the desired transport topology for internal LANs at each location. Switch technology is desired for these Internal LAN connections. The total port count for each facility is listed in the Network Transport Equipment List below. SNMP and RMON capability is desired. Command Line Interface (CLI) through telnet is desired. Future classes scheduled included those on network management. Management capabilities built into equipment will facilitate instructions and should be described in proposal.

These networks will have connectivity to the Internet. Packet filtering devices and shared media collision domains Ethernet hubs will allow the establishment of security IP based Access Control List (ACL), traffic choke points, and intrusion detection through network based sensors to monitor traffic at critical network points.

Network Transport Equipment List

All equipment is listed as a guideline for quantities. Offertory is expected to provide flexible and scalable proposal that meet today's requirements and is designed to support emerging packet-based services.

Description	Site	Quantity	UM
10/100 Mbs 2 Port Ethernet Packet-Filtering Router capable of IP based Access Control List	DLC	5	Each
10/100 Mbs Ethernet Full-Duplex Switch Ports for Server Farm	DLC	24	Each
10/100 Mbs Ethernet Shared Collision Domain 4 Port Hub	Christ	1	Each
10/100 Mbs Ethernet Shared Collision Domain 4 Port Hub	Covenant	1	Each
10/100 Mbs Ethernet Shared Collision Domain 4 Port Hub	Upper Room	1	Each
10/100 Mbs Ethernet Shared Collision Domain 8 Port Hub	DLC	2	Each
Broadband Fixed Wireless Antenna	Christ	1	Each
Broadband Fixed Wireless Antenna	Covenant	1	Each
Broadband Fixed Wireless Antenna	DLC	4	Each
Broadband Fixed Wireless Antenna	Upper Room	1	Each
Broadband Fixed Wireless Transmitter	Christ	1	Each
Broadband Fixed Wireless Transmitter	Covenant	1	Each
Broadband Fixed Wireless Transmitter	DLC	4	Each
Broadband Fixed Wireless Transmitter	Upper Room	1	Each
Switch Ports	Christ	28	Each
Switch Ports	Covenant	50	Each
Switch Ports	DLC	96	Each
Switch Ports	Upper Room	60	Each

INFRASTRUCTURE SERVERS

The infrastructure servers are the backbone of this project. Proposed solutions must include software to implement. Offertory must provide proposal that meet the general premise of the project. This project proposal is based on having zero administration on the desktop. It is based on pooling of community expertise, which skills need to be used proactively, as opposed to firefighters. PC administration configuration must be performed on centralized servers, to simplify administration and eliminate the need to physically configure each unit.

Offertory proposal must address servers meeting the following requirements:

Security (Sec) / Authentications Servers (Auth)

These servers will provide security and the authentication mechanism for the DLC Remote Learning Project. This network will have connectivity to the Internet. Security requirements are driven to protect the confidentiality of data collected throughout a connected community. These servers must be reliable and interoperable in a mixed Microsoft Windows and UNIX environment.

- 400 Mhz Pentium
- 1 CPU
- 256 MB RAM
- 10/100mb Network Cards Full Duplex
- SCSI Interface Card

Web Computer Training Servers (WebCT)

Servers will deliver training through browser-based interface to the desktop. Server must be capable of supporting up to 75% of Phase planned desktops concurrently. Proposals are expected to address the flexibility of solution to scale into additional phases of the project. These servers must be reliable and operable in a mixed Microsoft Windows and UNIX environment.

- 400 Mhz Pentium
- 2 CPU
- 2 GB RAM
- 10/100mb Network Cards Full Duplex
- SCSI Interface Card

Windows Computer Training Servers (WinCT)

Servers will deliver training Microsoft Windows applications to the information access unit. Server must be capable of supporting up to 75% of

Phase I planned information access points concurrently. Proposals are expected to address the flexibility of solution to scale into additional phases of the project. These servers must be reliable and operability in a mix Microsoft Windows and UNIX environment.

400 Mhz Pentium
4 CPU
2 GB Mb RAM
10/100mb Network Cards Full Duplex
SCSI Interface Card

Information Sharing Server (ISS)

Servers will provide the access point for data collection support for the community. Community calendaring and information dissimulation will be providing for this server. Server must be capable of supporting up to 75% of Phase I planned information access points concurrently. Proposals are expected to address the flexibility of solution to scale into additional phases of the project. These servers must be reliable and operability in a mixed Microsoft Windows and UNIX environment.

400 Mhz Pentium
4 CPU
4 GB RAM
10/100mb Network Cards Full Duplex
SCSI Interface Card

Disk Storage Solution (Disk)

Mechanism must be provided to pool disk requirements for the project. Proposals should provide for a solution like Network Attached Storage. These servers must be reliable and operability in a mixed Microsoft Windows and UNIX environment.

Handle 50 CDROMs currently
250 GB of on-list magnetic disk space with minimum RAID 5 technology
100 MBs Network Card
Robotic Tape Back unit for data storage pool

Infrastructure Servers Equipment List

Below is an example equipment list anticipated to be required for Proposal. Successful offertory will develop a proposal that will address the infrastructure requirements described in this section. It is the offertory responsibility to determine equipment specifications, and software to successfully implement this project. Proposal must describe their solutions scalability to meet all three phases objective of project.

Description	Type	Quantity
Firewall Servers	Sec	2
Network Sensors	Sec	4
Log Server	Sec	1
Login Server	Auth	1
Domain Name Server	Auth	2
IP Address Pool Server	Auth	1
Web Computer Training Server	WebCT	1
Windows Computer Training Servers	WinCT	1
Information Sharing Server	(ISS)	1
Network Attached Storage	Disk	250 GB

NETWORK ACCESS UNITS

Network Access Units Equipment List

Description	Site	Quantity	UM

Quality Requirements:**Contractor Responsibility:**

1. The contractor will procure all equipment/materials required by this task and ensure that these items are delivered too the site.

Contractor Selection:

DLC intends to evaluate offers and award a contract without discussions. Therefore, qualified contractors should submit a quotation with the best possible price. DLC intends to award a contract from this solicitation to the lowest-priced, responsible offertory, whose past performance is found to be acceptable, whose offer conforms to the solicitation to satisfy DLC's needs, and whose offer will be most advantageous to DLC. Quotes shall be submitted in writing (Fax copy is accepted) to Harrison May, address above no later than COB June 9, 2000.

Proposal Preparation and Submission Requirements:**1. RFP Response:**

In order to be considered for selection, Offertory must submit a complete response to this RFP. One- (1) original and (1) copies of each proposal must be submitted. The Offertory shall make no other distribution of the proposal.

2. Proposal Preparation:

"Proposals should be as thorough and detailed as possible so that DLC may properly evaluate your capabilities to provide the required goods/services. Offertory are required to submit the following items as a complete proposal:"

- a) A written narrative statement to include:
 - i. Experience in providing the goods/ services described herein.
 - ii. Names, qualifications and experience of personnel to be assigned to the project.
 - iii. Resumes of staff to be assigned to the project.

Reference of similar types of installations.

b) Specific plans for providing the proposed goods/services including:

- i. List of proposed equipment/goods/etc. including operating parameters, illustrations, etc.
- ii. What, when and how the service will be performed.
- iii. Time frame for completion.

3. Proposed Price.

Rate structure for maintenance proposal.

4. An authorized representative of the Offertory shall sign proposals. All information requested should be submitted. Failure to submit all information requested may result in DLC requiring prompt submission of missing information and/or giving a lowered evaluation of the proposal. DLC may reject proposals, which are substantially incomplete or lack key information.

EVALUATION CRITERIA:

"Proposals shall be evaluated by the (name of issuing State agency) using the following criteria:"

	Point Value
1. Completion time.	125
2. Quality of equipment offered and their suitability for the intended purposes.	100
3. Qualifications and experience of Offertory in providing the services.	75
4. Price.	75
5. Maintenance Support.	75
6. References from other clients.	50
Total Points	500

AWARD OF CONTRACT:

Prior to the award of the contract, DLC must be assured that the Contractor selected has all of the resources required to perform the proposed work successfully. This includes, but is not limited to:

- Sufficient personnel with the skills required.

- Financial resources sufficient to complete performance under the contract; and
- Experience and references with similar projects.

If DLC is unable to assure itself of the Contractor's ability to perform under the contract, it has the option of requesting any additional information, which is deemed necessary to determine the vendor's ability to perform. If such information is required, the vendor will be notified and allowed an appropriate time to submit the information requested.

If the information submitted is insufficient to satisfy DLC as to Contractor's contractual responsibility and ability to perform, additional information may be requested or the proposal rejected. DLC's determination of responsibility and ability to perform shall be final.

Disclaimer

If at any time the quality of work is not to the standards described in this RFP then DLC reserved the right to cancel the contract.

Vendor Bid List

Company Name	Contact Name	Address	Phone #	Fax #
3Com				
Cabletron				
Cisco				
Data Warehouse				
DELL				
Gateway				
HP				
IBM				
SUN Microsoft Systems				