



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

Submitted Date: 8/17/2009 10:16:29 AM		Easygrants ID: 2400	
Funding Opportunity: Public Computer Centers and Sustainable Broadband Adoption		Applicant Organization: University of Massachusetts Lowell	
Task: Submit Application - Non-Infrastructure Programs		Applicant Name: Carol McDonough	

Table of Contents

- A. General Application Information
- B. Eligibility Factors
- C. Executive Summary
- D. Project Purpose
- E. Project Benefits
 - E-1 - Expanding Broadband Public Computer Center Capacity
 - E-2 - Project Benefits – Sustainable BroadBand Adoption
- F. Project Viability
- G. Project Budget & Sustainability
- H. DOC Environmental Checklist
- I. Compliance and Certification
- J. Uploads



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A. General Application Information

1. Applicant Information	
1-A. Name, Address, and Federal ID for Applicant	
i. Legal Name:	University of Massachusetts Lowell
ii. Employer/Taxpayer Identification Number (EIN/TIN):	043167352
Street 1:	600 Suffolk Street
Street 2:	2nd Floor
City:	Lowell
County:	Middlesex
State:	MA
Country	United States
Zip/Postal Code:	01854

1-B. Name and Contact Information of Person to be Contacted on Matters Involving this Application:	
Prefix:	
First Name:	Carol
Middle Name:	
Last Name:	McDonough
Suffix:	
Telephone Number:	978-934-2784
Fax Number:	
Email:	Carol_McDonough@uml.edu
Title:	

1-C. Other Required Identification Numbers



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i. Organizational DUNS:	956072490
ii. CCR # (CAGE):	927033092
iii. Funding Opportunity Number:	2
iv. Catalog of Federal Domestic Assistance Number:	BTOP CFDA Number: 11.557 BTOP CFDA Title: Broadband Technology Opportunities Program

1-D. Organization Classification

Local, State, or Other Government Entity

1-E. Applicant Federal Debt Delinquency Explanation

Is the Applicant Delinquent On Any Federal Debt?
No

Federal debt delinquency Explanation:

1-F. Congressional Districts of:

Applicant: Massachusetts - 5

Program/Project
Massachusetts - 5
Massachusetts - 6

2. Project Title and Project Description

2-A. Project Title : Lowell Internet, Networking and Knowledge (LINK): Sustaining Broadband Access Across the Generations



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2-B. Project Description: The Lowell, MA and neighboring Merrimack Valley project bridges the digital divide by delivering broadband access, awareness and training to low-income youth, persons without college diplomas, and seniors. A partnership among seven organizations, LINK will build out computer centers, develop content modules, produce twenty jobs, and promote broadband adoption for several thousand households.

3. Project Type

Classify the particular project type for which you are seeking federal funding.

Project Type: Sustainable Broadband Adoption

Project ID: 2

4. Application ID for Multiple Submissions for Identified Service Areas

5. Estimated Funding (\$):

Estimated Funding (\$):	
Federal	783,094
Applicant	195,998
State	
Local	
Other	
Program Income	
Total	979,092

B. Eligibility Factors

6. Eligibility Factors.



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The application must be completed fully, and all required supplemental documentation must be attached.

Applicants must commit to substantially completing their Project (as defined in the NOFA) within two years of the award date, and completing the Project within three years of the award date.

Applicants must credibly demonstrate that their Project advances at least one of the five statutory purposes for BTOP.

Applicants must demonstrate that but for Federal funding they would not have been able to complete their project during the grant period.

The budget for the project must be reasonable and all costs must be eligible.

6-d. Applicant is providing matching funds of at least 20 percent towards to the total eligible project costs or is requesting a waiver of the matching requirements.

Yes

Matching Fund Waiver Request Explanation

C. Executive Summary

7. Executive Summary of Overall Proposal:

Where: LINK focuses on Lowell, MA and the Merrimack Valley. Lowell is the Valley's largest city and home to the country's second largest Cambodian community. The Merrimack Valley houses 600,000 residents and lags behind the state in income and education. This area is a Department of Housing and Urban Development designated Renewal Community.

Why: A digital divide exists in broadband usage: low-income households, persons without



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college diplomas, and seniors have lower broadband adoption rates. This is true in Lowell where the per capita income is \$21,780. Over 15% of families live below the poverty level, almost twice the national average. Lowell also trails the nation in high school and college degree attainment and 40% of Merrimack Valley residents have a per capita income in the lowest quadrant for the state. These groups are less likely to use broadband for educational, health, job search, financial and networking purposes. Data suggest that among our target populations current broadband usage is below 50%. CPS reports that among individuals 65 years and older, only 35 % access the Internet and many use slower connectivities.

What: Through LINK, the University of Massachusetts Lowell (UML), in partnership with community agencies, aims to promote broadband usage as indispensable to individuals' daily lives. Our objective is to reduce the digital divide by shifting broadband demand from "luxury" to "necessity" status, while also increasing public capacity and access points for those who would not otherwise use broadband. With a diverse set of partners, LINK addresses the digital divide through an inter-generational approach that crosses class, ethnic, gender, and racial boundaries. By promoting broadband use while providing greater access, we will create sustained growth in regional broadband demand.

How: Initially, we will build out/upgrade community-based computer centers at the United Teen Equality Center (UTECE), the Boys & Girls Club of Greater Lowell, Community Teamwork, Inc., three senior/disabled public housing properties in Lowell, and three Merrimack Valley senior centers. This will increase access to broadband for low-income youth, the unemployed, young WIC mothers, and seniors. UML students and young people at UTECE will be trained to help clients in computer facilities. Youth also will learn about career opportunities in fields such as technology and elder services. To expand access further, we will sponsor WiFi spots in Lowell. Content modules, splash pages and marketing material will make internet-based information on employment, education, health and financial literacy more widely accessible. Partnering with Elder Services Merrimack Valley and Lowell Housing Authority, seniors will be surveyed about broadband use. Informed by these findings, health/wellness content modules will be created and distributed. Furthermore, age-appropriate health-related content, in English, Khmer and Spanish, will be developed with our youth partners. A broadband awareness campaign will be launched, with workshops and demonstrations promoting the benefits of broadband, at our partners' computer lab sites, in public libraries, housing developments, businesses and through a range of media including public access television and foreign language radio programming at local radio stations.



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Finally, UML researchers will survey clients and document factors that increase or inhibit broadband use, linking use to socioeconomic and demographic variables. Findings will help others replicate this project in their communities.

LINK represents an innovative effort that couples training, mentoring and outreach resources of the community with UML’s research, organizational, fiscal management and evaluative capacity. Overseeing the project, UML’s Center for Family Work and Community (CFWC) has extensive experience in successfully implementing multi-year community partnership grants. UML has worked with community-based organizations on a wide range of projects from health-based initiatives for Cambodian elders to school-university partnerships for college access, and has learned how best to collaborate in ways that leverage each partner’s assets.

In sum, LINK addresses the need to improve broadband service adoption rates in a mid-sized city that is representative of urban, industrial America and its larger region. We also estimate the awareness campaign will reach 240,000 people and the project will create 6,650 new broadband users in public computer centers and create 7,500 new broadband subscribers (which represents about 18,000 users) across the Merrimack Valley. Most of these new users and subscribers will be low-income and/or senior citizens, based on the population within targeted areas and our strategic partnerships with community organizations. LINK will create 14 full- and part-time jobs and three consulting opportunities. Moreover, through content development, training and mentoring activities, we will create a pipeline for people to better access education/training and jobs.

Principal investigators are senior UML faculty: Professor of Economics Carol McDonough, who specializes in telecommunications and public/private interplay for broadband, with experience in research and community interaction; and Professor Robert Farrant, Director of UML’s Center for Family, Work and Community with two decades of experience working with the Lowell community on grant-funded initiatives. The total cost of the LINK initiative is \$979,093.12.

D. Project Purpose

Project Purpose: Recovery Act & BTOP Objectives



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8. Project Purpose

Nationally, low-income individuals, people who lack college education and seniors have low rates of broadband use. The digital divide deprives these individuals of equal access to job opportunities, employment training, educational opportunities, financial services and health information. Information inequality is economically and socially damaging to vulnerable residents while it also negatively affects society: higher unemployment rates, a less educated/trained citizens and higher healthcare costs.

As the use of broadband expands globally, vulnerable residents of Lowell and the Merrimack Valley are becoming increasingly disadvantaged. For instance, at a Community Teamwork Inc career and employment counseling site, clients do not have broadband access to job and training opportunities. The Lawrence Senior Center cannot afford computers or broadband access for its clients. The Boys & Girls Club estimates that over 50% of its 4000 low-income members live in homes without any Internet access.

LINK expands broadband usage among these populations using several strategies:

1. Computer Center Build-Out in Lowell: For poor youth and the unemployed in Lowell, we will build out computer centers and staff them with trained student interns. We will partner with Lowell Boys & Girls Club, Community Teamwork Inc.(CTI) and United Teen Equality Center (UTECE) to provide computer access to at-risk low-income youth, WIC mothers, and unemployed persons residing in Lowell's Renewal Community. Youth computer centers will be open on scheduled evenings to family members and friends.
2. Computer Center Build-Out for Merrimack Valley Seniors: Partnering with the Lowell Housing Authority (LHA) and Elder Services Merrimack Valley (ESMV), we will expand computer centers for seniors in three LHA properties and three ESMV senior centers, including the Lawrence Senior Center. Touch screen monitors will be tested to determine if this technology makes it easier for seniors to access information. We will also install and support WiFi connections in two LHA senior/disabled property to increase broadband access. Residents accessing broadband using their own equipment and a WiFi point may obtain project staff support and content modules. A limited number of WiFi cards will be purchased and installed to make residents' computers WiFi accessible.



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3. Training Teens and UML students: Working with Lowell Telecommunications Corporation (LTC), we will train UTEC and Lowell Boys & Girls Club teens to develop content for broadcast on public cable channels. This will expand the teens’ skill sets and stimulate overall interest in broadband among friends and family. UTEC clients will receive paid training and internships in computer assistance and maintenance. UML undergraduate interns will be trained and employed to provide computer training and assistance in LINK centers.

4. Content Modules: Drawing upon expertise of UML faculty and Internet resources, topical content sites and modules will be developed and work stations customized to provide ready access to educational, employment and financial literacy databases, skills training software, age-relevant health information and similar tools. This strategy builds upon research findings that providing pipelines and access must be coupled with content development and easily-accessed information in order to promote widespread broadband adoption. Realizing that reasons for broadband non-use, especially among seniors, include non-financial issues, we shall ask participating seniors in the Merrimack Valley to identify features or accommodations that would make them more likely to use broadband. Informed by these research findings, we will tailor our outreach, training, and content development work to address these issues.

Broadband Awareness: We will promote broadband demand with an awareness campaign throughout the Merrimack Valley, with workshops, demonstrations and content information distributed in public libraries, housing developments, businesses and through public access television and radio programs.

Replicability: The model and strategies can be replicated in other urban areas. The necessary ingredients are an educational institution or some other integrating entity with organizational capacity, and a mutual willingness to partner between this entity and a range of community agencies. Data will be gathered from LINK centers on factors that increase or inhibit broadband use. Usage information will also be obtained by surveying customers of participating businesses and the families of the 780 students in the GEAR UP program. UML researchers will link usage rates with socioeconomic and demographic data. These findings will help others replicate this project in their communities.

The problems and the proposed solutions this project addresses advance two of BTOP’s statutory purposes:



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- “Provide broadband education, awareness, training, access, equipment and support to community anchor institutions, job-creating facilities, and vulnerable populations.”
Approximately one-half of Lowell and Lawrence are HUD Renewal Communities.
- “Stimulate the demand for broadband.”

9. Recovery Act and Other Governmental Collaboration.

UML in partnership with the other four UMass campuses were just awarded a three-year Learn and Serve Higher Education grant from the Corporation for National and Community Service. The first year budget is \$470,937 with a potential of the same funding amount for year 2 and year 3, totaling over \$1.4 million. The main goals of this project are to: build stronger communities by 1) strengthening university student civic engagement and leadership and increasing individual and collective capacity to contribute to economic recovery, 2) increasing public school success and establishing mechanisms for access to college and health professions education, 3) helping workers develop 21st century skills, 4) building the capacity of community organizations to make effective use of our students. We will achieve these goals through sharing best practices and increasing campus capacity to effect change through student leadership and service learning. In total, UMass seeks to involve more than 1500 more students in service related activities. Through collaboration with this new project, we will establish LINK early on as an avenue for student service opportunities as well as a component of service learning courses.

In addition, the Center for Family, Work and Community manages a US Department of Education GEAR UP grant. The aim of this \$3.47 million 6-year project is to help students be prepared for and attend undergraduate school. A part of this project is working with families to help them support their children’s education, learn about what is necessary to get into college, and how to apply for college and financial aid. Through GEAR UP, LINK will have access to nearly 900 families, many of which do not have broadband access but are realizing how important being connected is for their children’s success in school and into getting into college.

Each partner—UTEC, Boys & Girls Club, Lowell Housing Authority, Community Teamwork Inc., Elder Services of the Merrimack Valley and the Council on Aging Senior Centers has state and federal funding from a variety of sources.

10. Enhanced Services for Health Care Delivery, Education, and Children

LINK intends to generate greater demand and increase access to broadband services. A



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central strategy here is to integrate broadband awareness with relevant content areas that address important community needs. Expanded computer centers for youth, women and their infants, the unemployed, and elderly residents in Greater Lowell will be customized to provide access to materials and databases tailored for each group. Content modules specifically for the elderly, for example, will be developed in consultation with Community Health Education faculty at UML, as well as Lowell Community Health Center and Merrimack Valley Elderly Services. Health information that is most relevant to youth and teen users will be made accessible with the help of local youth serving organizations with whom UML has collaborated on numerous projects over the last 20 years. CFWC and UML have a long and successful track record of collaborating with these organizations for outreach and to disseminate urgent educational information. For example, CFWC’s partnership with youth organizations has been integral in sharing college awareness information through workshops and events (in conjunction with Federal and private foundation grants) and implementing a comprehensive program to reduce chronic diseases in Cambodian elders (though a multi-year CDC REACH 2010 funded grant).

These specific content modules—developed and tailored for each group of users—will streamline and simplify access to appropriate sites, including education/training sites for youth, education/training/job sites for those unemployed, health/wellness sites for youth, women and their infants and seniors. For seniors, workstations will contain icons linking seniors to sites that they might frequently use such as local medical practices, local pharmacies, social security, social service agencies, and content modules that will help users connect to materials on topics such as nutrition, obesity, exercise, heart disease, stroke, diabetes and cancer. Moreover, UML student interns will provide on-site training to computer lab users on how to use the computers and access these modules and other information.

Users of all ages will have increased knowledge of how to:

- * Access appropriate, valid and reliable information;
- * Access their own health information safely and to maintain confidentiality;
- * Use the internet to increase their job prospects and potential for employment; and
- * How broadband use can facilitate their personal and family connections to sources of health and other information.

Through the advertising/marketing strategies described elsewhere in this proposal, we intend to reach, in particular, those households most affected by the digital divide. The computer labs



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will be open to the many teens, unemployed and seniors seeking access that would otherwise be unavailable.

11. Small and Disadvantaged Business Involvement

We have established agreements in principle to create relationships with two small businesses. NKC Systems (owner: Norm Morin) located in Dracut, MA, a town just next to Lowell, is a small business (5 employees) founded in 2002 offering computer build out, repair and on-site servicing. Mr. Morin has agreed to set up the new computers at each site, install basic software and provide service to the computers each year of the grant.

ProSpeed (founding owner: Colin King) established in 1999 with locations in southern NH (less than 10 miles away) and Beverly MA is a provider of converged voice and data communications, including WiFi. Mr. King will provide the 17 Wi Fi hubs at two housing authority sites.

E. Project Benefits

E-1 – Expanding Broadband Public Computer Center Capacity

Public Computer Center Capacity, Including Areas and Populations Served

12. Public Computer Centers Availability

13. Restrictions on Public Computer Center Use

14. Public Computer Centers Accessibility

15. PCC - Center Locations, PCC - Center Capacity, PCC - Size and Scope of Target Audience.

PCC - Center Locations & Center Capacity & Size and Scope of Target Audience.



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16. PCC- SBA Population Demographics

Age Distribution
Age Distribution: 5-19
Age Distribution: 20-29
Age Distribution: 30-39
Age Distribution: 40-49
Age Distribution: 50-59
Age Distribution: 60-69
Age Distribution: 70 and above

Ethnicity or ethnicities
Ethnicity: Hispanic
Ethnicity: Non-Hispanic White
Ethnicity: Non-Hispanic Black
Ethnicity: Non-Hispanic Asian
Ethnicity: Non-Hispanic Other
Ethnicity: Two or More Races



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Gender
Gender: Female
Gender: Male

Median Household Income
Median Household Income: Less than \$9,999
Median Household Income: \$10,000 - \$14,999
Median Household Income: \$15,000 - \$24,999
Median Household Income: \$25,000 - \$34,999
Median Household Income: \$35,000 - \$49,999

Educational Levels
Educational Levels: None
Educational Levels: Nursery school - Preschool
Educational Levels: Elementary - Kindergarten - Grade 5
Educational Levels: Middle - Grade 6 to Grade 8
Educational Levels: Secondary - Grade 9 to Grade 12

Disabilities status
Disabilities status : A condition that substantially limits one or more basic physical activities such as walking, climbing stairs, reaching, lifting or carrying



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Disabilities status : A physical, mental or emotional condition lasting 6 months or more

Unemployment Rate
Unemployment Rate: 9.60

Language
Language : English - Primary
Language : English - Second Language
Language : Non-English Speakers

17. Public Computer Centers Outreach

Public Computer Center Capacity: Training and Educational Programs

18. Public Computer Centers Peripherals and Equipment

19. Public Computer Centers Workstation Software

20. Public Computer Centers Training and Education Programs

E-2- Project Benefits – Sustainable BroadBand Adoption

21. Innovative Approach to Sustainable Broadband Adoption



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LINK’s innovative approach to increasing broadband use and access is evident in its overall strategy of linking across generations, ethnic groups, and community organizations. The project synergizes the resources of UMass Lowell with the assets of numerous community agencies to provide information, training, mentoring, and outreach to populations with relatively low broadband usage to erase the digital divide.

Seven innovative approaches this program utilizes are:

- Intergenerational linking of UML student interns and youth lab workers from UTEC with Lowell residents and elderly users throughout the Merrimack Valley for broadband training at expanded computer facilities.
- Young people learning more about Internet use themselves and assisting in the development of content modules related to education and health information.
- UTEC’s lab workers discovering high tech career options and options in the fields of elder services and health care.
- UML interns working with a broad age range of program participants.
- UTEC youth and UML students working with UML faculty in the research, development and data collection process, including the creation of a survey instrument and collection of information on usage and factors influencing broadband adoption. Information will be linked to socioeconomic and demographic factors.
- In-depth studying of broadband use among seniors. Seniors will be surveyed at the start of the project to determine financial and non-financial reasons for broadband use and non-use and what would increase use. Findings will enable us to tailor support and content development in the second year of the grant to enhance broadband usage among youth and seniors.
- Harnessing UML faculty resources in fields such as health/nursing and assistive technology to meet needs of seniors with physical challenges that impede broadband use.

Project replicability grows out of our research on patterns of broadband use among vulnerable youth, unemployed persons, and seniors. Lessons learned can be applied to diverse urban areas with relatively low broadband usage. In other word, Lowell and the Merrimack Valley’s size and diversity make them representative of many mid-sized urban areas around the country. Thus, the region is an optimal location to implement a broadband access and demand project. LINK’s structure, and the detailed documentation of usage results by each client group, facilitates replication in urban areas.



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We will incorporate UML’s already established service-learning programs, such as the NSF-funded SLICE (Service Learning Integrated throughout the College of Engineering) into the program by year 3 in order to sustain the project beyond three years. Finally, to further project sustainability, we will establish LINK early on as an avenue for student service opportunities as well as a component of service learning courses (see #9) in UML’s newly funded Corporation for National and Community Service grant.

22. Sustainable Broadband Adoption Household Subscribers.

How many total new home subscribers (household accounts) to broadband do you expect to generate through use of BTOP funds over the entire life of the program funded? **7,500**

23. Sustainable Broadband Adoption Institutional Subscribers.

How many total new business and/or institutional subscribers to broadband do you expect to generate through use of BTOP funds over the entire life of the program funded? **5**

24. Sustainable Broadband Adoption Users of Public Access Facilities.

How many total **users** of broadband in public computer centers or **users** of broadband **outside the home** (e.g., in a community college) do you expect to generate through use of BTOP funds over the entire life of the program funded? **6,650**

25. Sustainable Broadband Adoption Population Demographics.

Please refer to PCC – SBA Demographics section (Section E1- Question 17)

26. Sustainable Broadband Adoption People Trained/Educated.

If you intend to provide training or education, how many people **in total** will your program(s) reach? **2,000**

27. Sustainable Broadband Adoption - Scope of Training/Education Programs.

How many hours of training do you expect to provide *per person on average* for each participant in your training program(s), through completion of training for that individual? If you will offer multiple programs, provide estimates for each program. **8**

28. Sustainable Broadband Adoption Instructor Qualifications.

How many (FTE) instructors/facilitators will you employ for broadband and digital literacy training purposes, and what are their qualifications (training and experience)?

A total of 7.51 FTEs will be employed as instructors/facilitators in the first and second year of the grant (.5 in year 3). In year 1 this includes one .75 time time instructor (.5 in 3) who will also coordinate the overall program out of UML Center for Family, Work and Community. This person will be skilled in project management, computer and broadband usage, and training both teens and seniors. A full time instructor (in both year 1 and 2) will be hired at UTEC to train and oversee the teen trainers and troubleshooters. This person will have experience working with at-risk youth, computers and computer training. The six UTEC teens will total



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3.18 FTEs in both year 1 and 2. They will have interest and ability in computer usage, good communication skills, Khmer and/or Spanish language proficiency and ability to teach others with patience. Five UML interns totaling 2.1 FTEs will have proven computer skills and ability to work collaboratively with young people and have majors in computer science, psychology, economics and other suitable disciplines.

29. Sustainable Broadband Adoption Equipment Purchased.

How many broadband-related equipment units (e.g. computers, wireless devices) do you intend to purchase overall? **78**

30. Sustainable Broadband Adoption Cost of Devices.

What is the total up-front cost of this equipment? **57,900**

31. Sustainable Broadband Adoption Loan Program Participants.

If you are providing an equipment purchase or loan program, for how many households, businesses and/or institutions do you expect to provide equipment or computers?

Number of Households:

Number of Businesses:

Number of Institutions:

32. Sustainable Broadband Adoption Loan Cost to Borrower.

If you are employing a loan program for purchases of service or equipment, what will be the total cost to the typical customer you assist over the life of the loan, including all interest and fees?

33. Sustainable Broadband Adoption Target Population, Awareness Campaign.

If you are conducting an awareness campaign, how many people do you expect your campaign will reach? **240,000**

34. Sustainable Broadband Adoption Awareness Campaign Methods

Our broadband awareness campaign will use a diverse set of strategies, including existing community networks, new collaborations, and a range of media services. A central component of this campaign is our series of training workshops. These broadband awareness and training programs will be held by our community partners throughout Lowell and the Merrimack Valley. These organizations will target their members and community residents who are predominantly low-income or seniors, or who otherwise are at risk of falling on the wrong side of the digital divide. These organizations include Elder Services Merrimack Valley, Community Teamwork Inc., Lowell Telecommunications, UTEC, Boys & Girls Club, among others. The organizations will use their current member lists, phone calls, newsletters, and other means to spread the word about the workshops.

Other publicity will include WUML 91.5FM which serves a wide audience through local



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

Submitted Date: 8/17/2009 10:16:29 AM		Easygrants ID: 2400	
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Task: Submit Application - Non-Infrastructure Programs		Applicant Name: Carol McDonough	

shows in several languages, and WCAP, the region’s news and information station. There are several public access television channels that serve the Greater Lowell community that reach an audience of over 30,000 households. Through our partnership with LTC and UTEC, public service announcements and workshop information will be aired during their most highly viewed programming hours. The content of these shorts and PSAs will be developed and implemented by trained youth as part of the content modules (internships, service learning, etc.).

Local newspapers will also be central in the awareness campaign. For example, The Lowell Sun reaches 48,000 readers daily and 50,000 on Sundays. Co-PI Robert Forrant writes a regular and widely read column for this newspaper and will write a series of articles about the project over the life of the grant.

Other outreach avenues will also be utilized. For example, CFWC has extensive experience in connecting with ‘hard-to-reach’ populations and will leverage those lessons in this broadband campaign. For instance, through our work with Brazilian families, we have partnered with a local Catholic church (Holy Family of Lowell) to share information in Portuguese in their oral announcements and newsletters. LINK will mine these experiences to best spread information about the importance of broadband use and available access points in the city.

Another component of the awareness campaign includes printed information about workshops and how to access online materials on education/training, job search, and health/wellness. These will be distributed in banks, shopping malls, public libraries, and at local sporting events. Workshops and demonstrations on the value of broadband will be open to the public and held at locations throughout the community, such as the Lowell Boys and Girls Club, CTI, UTEC and the Center for Family, Work and Community. Furthermore, we will host broadband workshops at the twenty-three senior centers in the Merrimack Valley. Printed materials on health and wellness will be distributed and we will demonstrate the value of broadband as a source of information, a marketplace medium, and a tool for social interaction. This is a particularly important point of connection for many of our residents who are restricted in their physical mobility.

For all workshops and demonstrations, the broadband carriers that serve the area will be invited to provide information on service and rates, and to partner with LINK to help distribute educational materials about broadband use. Since broadband service is licensed by



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municipality in Massachusetts, we will meet with city/town officials to highlight the value of broadband to residents and to discuss possible service options that might increase the affordability of broadband for municipal residents.

35. Measuring Campaign Impact for Sustainable Broadband Adoption

Since the awareness campaign will take many forms, we shall measure campaign impact for each campaign form in the most effective way.

Presentations, demonstrations, workshops, hosted outreach events, personal interviews about broadband use. Each of these activities will include a module asking participants:

- Whether they are now more aware of the benefits of broadband;
- Whether they are now more likely to access broadband in some public place, such as a library or senior center;
- Whether they are now more likely to subscribe to broadband if they are not already subscribers.

Representatives from broadband carriers will be invited to attend these demonstrations and workshops. We will partner with these carriers to obtain information on new subscriber yield from these events.

Broadband awareness sessions on:

- Local access public television
- Local radio stations
- Print media
- Fliers distributed at local businesses and events

These activities will provide a feedback phone and email address for residents to give their opinions about broadband and to request additional information.

BTOP-sponsored computer centers

Broadband usage will be counted electronically at each sponsored center.



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

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Task: Submit Application - Non-Infrastructure Programs		Applicant Name: Carol McDonough	

Users will be surveyed periodically about their broadband use and the benefits they have received. These surveys will ask participants:

- Whether they are now more aware of the benefits of broadband;
- Whether they are now more likely to subscribe to broadband if they are not already subscribers.

Participant responses about broadband awareness obtained at the beginning of the project will be compared with final results to assess campaign impact.

New Partnerships

We will continually build new partnerships during the project, reaching out to the business community and to community agencies to spread awareness of the benefits of broadband. The number of new partnerships established will be an indicator of the impact of our awareness campaign.

36. Sustainable Broadband Adoption Total Cost Per New Subscriber.

What is the total cost of your project per new subscriber (household, individual, or institutional) or new end-user? **131.00**

F. Project Viability

Technical Viability

37. Technology Strategy

37 - A. Public Computer Center Technology Strategy

37 - B. Sustainable Broadband Adoption Technology Strategy

LINK's operational plan is innovative and replicable. A critical linchpin in the project is the partnership between UMass Lowell and numerous community organizations. Embedding computer facilities, training and content within these organizations helps to assure the sustainability of the project.



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

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We will build/ expand computer centers and provide computer maintenance and support, for our Lowell partners and for the leading senior social service agency in the Merrimack Valley. These centers will give each organization’s vulnerable clients an opportunity to experience the benefits that broadband can bring into their lives.

For example, trainings for unemployed youth and adults is offered at a facility of our partner, Community Teamwork, Inc. (CTI) which provides workforce training and information through state-funded Workforce Development Board’s Career Center of Lowell. CTI is the largest community agency in Lowell. This project will provide staffers and their clients with access to broadband, which they currently lack. By linking CTI’s existing market of unemployed residents with increased broadband access and capacity, we can improve the way residents of our region approach job training, preparation, and recruitment.

As another example, UTEC connects with the most “at risk” youth in our city: gang involved, low-income, teen parents and otherwise marginalized young people. LINK deliberately connects these young people with broadband access and training, while also providing employment, leadership opportunities, and exposure to a host of other potential career fields in community health, education and elder services. By helping individuals become experts in broadband use, computer maintenance, and content development, these young people can in turn reach out to their peers more effectively than would otherwise be possible.

In Lawrence, a HUD Renewal Community, the heavily-used, multi-ethnic Senior Center lacks computers and broadband access. This project will provide computers, broadband access, and UML interns to enable vulnerable seniors to access on-line information on topics such as health and wellness, social security, and community services.

This project also promotes more widespread use of WiFi. In Lowell, there is already an ongoing effort led by our partner LTC to provide WiFi throughout the city. Currently, WiFi is accessible only in one downtown location. This project will provide WiFi access to two Lowell Housing Authority properties for seniors, so that residents with appropriate equipment can access broadband at no cost. The project will also install Wi Fi cards in resident computers as possible. Further, community businesses are partnering with LINK to sponsor WiFi spots throughout the downtown area.

Replicability



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Task: Submit Application - Non-Infrastructure Programs	Applicant Name: Carol McDonough

In initiating this project, we have mapped existing assets in the community including organizational resources, resident populations, computer centers, and current computer/broadband use. The tools developed for mapping existing assets are replicable in other communities.

Community agencies are usually spread thin in terms of resources and lack the ability to pool their needs and their resources to respond to an initiative such as BTOP. Needed is an integrating entity—such as an institution of higher education—that can weave together the activities and the needs of the community partners. Such an integrating entity needs to be recognized and trusted by potential community partners and have the organizational skills and history to knit together a broadband adoption project. Our model is replicable where such an entity exists.

Our training curricula and module development in broadband use, age-appropriate health/wellness content, financial literacy/services, employment/training and other educational tools can be shared with other cities and organizations around the country.

Finally, the larger LINK model, which bridges traditionally disconnected groups (universities, community nonprofits, churches, youth, seniors, and so on) will be documented and disseminated through popular and academic articles and in a summary report to be completed in the final quarter of the grant cycle.

Organizational Capability

38. Management Team Resumes.

Please refer to upload section at the end of document.

39. Organizational Readiness

UMass Lowell's Center for Family, Work, and Community (CFWC) has a history of successful implementation complex community-based, collaborative projects for sustainable development. Founded in 1994, CFWC's mission is to improve higher education's engagement with diverse families and organizations in order to build community infrastructure and capacity. We draw on the strengths of the region's diverse leaders, develop and test new approaches to problem-solving and strengthen UML's commitment to collaborative work with partners. CFWC has raised over \$15 million in funding from federal, state and foundation sources. Most are partnership grants with city offices, community-based nonprofits and small businesses. CFWC has built relationships with local businesses and launched a study of



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Public Computer Centers Program – Sustainable Adoption Program**

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immigrant-run firms to help the city identify their needs. CFWC helped create the Asian American Business Association supporting the development of minority business, providing advocacy, education and networking. Our work with nonprofit partners is extensive, with programs related to elder services (7-year partnership with the Lowell Community Health Center’s Cambodian Community Health 2010), youth services (GEAR UP which partners with Boys & Girls Club, UTEC and Lowell High School), and tech-based services (we host a community computer lab). CFWC specializes in program implementation and evaluation of complex, long-term partnership projects, developing methods to work with non-literate, non-English-speaking residents to increase participation in program development, performance and evaluation. We have lead several multi-year community wide programs, including education, substance abuse, crime, pollution and health. For example, these include GEAR UP (US DOE funded \$3.47 million over 6 years), Partnerships for College Success (Nellie Mae Foundation funded, 5-year \$750,000 grant), two HUD multi-year (community-university partnership grants totaling \$550K) and two HUD Healthy Home grants (totaling over \$1 million).

The United Teen Equality Center (UTEC) was established from a movement by young people to develop their own teen center in response to gang violence. UTEC’s mission is to be a “by teens, for teens” safe-haven for youth development and grassroots organizing. UTEC provides a safe and multicultural place of belonging emphasizing the holistic development of Lowell’s young people, ages 13-23, particularly those most often overlooked and labeled “at-risk.” UTEC appeals to these youth through intensive street outreach, builds upon their strengths within a youth development framework, and creates opportunities to support them in becoming agents of social change and leaders in their own lives. In 1999, UTEC started with one grant, a volunteer staff of three, and an annual budget of less than \$40,000. Today, thanks to 25 diverse funders, UTEC now has an annual budget of over \$850,000, nine full-time staff and eight inter-related departments.

40. Organizational Chart.

Please refer to upload section at the end of document.

Community Involvement

41. Key Partners



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

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Task: Submit Application - Non-Infrastructure Programs		Applicant Name: Carol McDonough	

United Teen Equality Center (UTEC)
Gregg Croteau, CEO
Hurd Street, Lowell MA 01851
Tel: (978) 265 7173,
Email: gregg@UTECL-LOWELL.org
Participation: subcontractor, youth training/employment site.

Boys & Girls Club of Greater Lowell
Michelle Meehan, President and Chief Professional Officer
657 Middlesex Street, Lowell, MA 01851
Tel: (978) 458 4526
Email: mmeehan@lbgc.org
Participation: youth training site.

Lowell Telecommunications Corp, Inc.
Eleanor Pye, Executive Director
246 Market Street, Lowell, MA 01852
Tel: (978) 458 5400
Email: epye@ltc.org
Participation: videographer training, WiFi coordination

Community Teamwork, Inc.
Karen Frederick, Executive Director
167 Dutton St, Lowell MA 01852
Tel: (978) 459 0551
Email: kfrederick@comteam.org
Participation: sites for workforce development and WIC health education

Lowell Housing Authority
Marlene Browne, Associate Director
580 Chelmsford Street, Lowell, MA 01851
Tel: (978) 364 5305
Email: mbrowne@lhma.org
Participation: computer centers for seniors



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

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Task: Submit Application - Non-Infrastructure Programs	Applicant Name: Carol McDonough

Elder Services Merrimack Valley
Anne Proli, Associate Director
360 Merrimack St, Bldg.5, Lawrence, MA
Tel: (978) 946 1368
Email: AProli@ESMV.org
Participation: computer centers for seniors

42. Partnering with Disadvantaged Businesses

We have established agreements in principle to create relationships with two small businesses. NKC Systems (owner: Norm Morin) located in Dracut, MA, a town just next to Lowell, is a small business (5 employees) founded in 2002 offering computer build out, repair and on-site servicing. Mr. Morin has agreed to set up the new computers at each site, install basic software and provide service to the computers each year of the grant.

ProSpeed (founding owner: Colin King) established in 1999 with locations in southern NH (less than 10 miles away) and Beverly MA is a provider of converged voice and data communications, including WiFi. Mr. King will provide the 17 Wi Fi hubs at two housing authority sites.

Ability to Start Promptly & Timeline

43. Project Timeline and Challenges

Year 1

(Q1) Goals: Equip computer centers; Collect baseline data on Internet usage. Activities: Purchase/install equipment; Train trainers; Develop survey tools/trainings. Outcomes: 10 computer centers updated/equipped; 13 students/youth interns recruited and trained

(Q2) Goals: Launch marketing campaign; Hold trainings/workshops; Collect baseline data on Internet usage. Activities: Develop audience marketing tools; Produce messages for local cable and radio; Schedule and begin to facilitate training; RAs develop Institutional Review Board application for survey approval. Outcomes: Appropriate curriculum for targeted audience workshops; Broadband info materials available in 10 locations; 2 PSAs on cable and/or radio; workshops held; Completed IRB application



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Task: Submit Application - Non-Infrastructure Programs	Applicant Name: Carol McDonough

(Q3) Goals: Develop content modules; Collect data on Internet usage; Continue marketing; WiFi set up; Trainings/workshops. Activities: Community/faculty educators develop health modules; RAs collect resources; Connect with WIB Career Ctr employment modules; Develop survey data base, begin data collection. Outcomes: 2 content modules completed; IRB survey approval; Survey data-base completed; 2 more PSAs; WiFi in use; x workshops held

(Q4) Goals: Connect with UML Learn and Serve program; Laptop Loan Program; Trainings/workshops. Activities: Translate PSAs and air; Develop modules; Meet with L&S staff to strategize; Advertise student service opps; Create loan program guidelines, monitoring logs and ads. Outcomes: 2 PSAs in Spanish and Khmer aired; Complete 2 add'l content modules; Collect, analyze surveys; Connect to UML's service learning mission; Loan program ads and logs created; workshops held

Year 2

(Q1) Goals: Continue marketing; Implement initial evaluative measures; Content modules installed for future trainings; Learn & Serve program connection; Loan Program; Trainings/workshops. Activities: Collect data on computer use, wifi, & training satisfaction; Convene service learning faculty; Advertise work study and service opps for students; Advertise loan program. Outcomes: PSAs aired; Log of internet use and surveys reported; Content modules installed; 4 students recruited; 5 families recruited for loan program; workshops held

(Q2) Goals: Continue marketing; Trainings/workshops; Learn and Serve program connection; Loan Program; Trainings/workshops. Activities: Attend student events to recruit; Attend faculty meetings to promote LINK; Meet partners to implement sustainability plan; Monitor laptop usage. Outcomes: PSAs aired; 2 service learning faculty recruited; 5 seniors recruited for loan program; workshops held

(Q3) Goals: Continue marketing; Create self-paced training modules for computer centers; Loan Program; Trainings/workshops. Activities: Install training modules and train agency staff; Monitor use of laptops. Outcomes: Broadband marketing materials redistributed; 2 service learning faculty recruited; 3 agencies have staff to train of clients; workshops held

(Q4) Goals: Marketing campaign realigned as necessary; Organized training of trainers; Computer maintenance check. Activities: Data collected on broadband awareness and available



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Public Computer Centers Program – Sustainable Adoption Program**

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Task: Submit Application - Non-Infrastructure Programs		Applicant Name: Carol McDonough	

workshops/materials; Monitor loan program data. Outcomes: TV, radio newspaper tools are re-aligned as needed to increase awareness; remaining agencies have trained staff to continue client training; workshops held

Year 3

(Q1) Goals: Evaluation of trainings and center use; Service Learning and Student Service management. Activities: Collect data on computer centers usage and survey participants/community. Outcomes: Draft report on training process/progress and changes in broadband perception and use; 5 student volunteers

(Q2) Goals: Most trainings have shifted to other partners; Student management. Activities: More trainings held at partner sites to increase sustainability. Outcomes: Complete transfer of training and computer maintenance to partners

(Q3-4) Goals: Sustainability Plan; Student management; Dissemination of results. Activities: Connect with Comcast to obtain new user numbers; publish reports/disseminate through Dept of Commerce and other avenues (media, etc.). Outcomes: Knowledge of new broadband users; Students/faculty involved; public awareness

Challenges:

1. Identifying, training, and retaining teens for community-based training activities poses problems. We need to involve teens who can work well with different people receiving training. And once youth are trained, how will we retain them? We will hire a UTEC project coordinator with experience on similar kinds of projects. S/he will have a close supervisory role to be aware of difficulties as they arise and devise strategies to prevent attrition of trained youth. The LINK employment component also is a retention incentive.
2. Outreach is challenging due to the range of ages, ethnicities, neighborhoods and languages spoken. This is supported through partnering with community organizations who already work with these populations. Each partner is a local leader in providing services to a well-defined client group. Together, age and culturally appropriate materials will be created.
3. With so many 'moving parts' in LINK's structure, there are potential problems. However, these organizations have worked together before. We have a steering committee to oversee the workplan and an advisory board will meet monthly to discuss progress regarding grant goals. This will enable us to stay on course for the duration of the project.
4. Sustainability is a challenge to any project. We anticipate that by building out the computer



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Funding Opportunity: Public Computer Centers and Sustainable Broadband Adoption	Applicant Organization: University of Massachusetts Lowell
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centers in local organizations, one step toward sustainability will be taken. The broad-based training and the content development provide tangible outcomes that will remain in use after the project. We expect the final year will include working with partners to garner any additional funds as needed.

44. Non-Infrastructure Projects - Licenses and Regulatory Approvals

None needed.

45. Legal Opinion.

Please refer to upload section at the end of document.

G. Project Budget & Sustainability

Project Profile: Budget and Budget Narrative

46. Budget Narrative

Personnel

UML Faculty Carol McDonough and Robert Farrant, Co-PIs, will oversee all aspects of the project including hiring, budget management and implementation. McDonough will work 11% and Farrant 9% of their time in years 1 and 2 and both 8% in year 3. 4% of their time in each year will be an in kind contribution. Federal cost will be \$38,173.04 plus fringe at 1.38% or \$526.78. Total in kind contribution will be \$28,572 plus \$394 fringe.

In year 1 Andrew Hostetler, Professor Community Social Psychology will commit 30 hours to creating content for training modules specific for seniors. Jessie Heines, Professor Computer Science will commit 30 hours to creating software to collect usage records on lab computers. Federal cost will be \$2,510.40 plus fringe at 1.38% or \$34.64.

In year 1 four other faculty members from the School of Health and Environment will commit 2% time to provide technical assistance to health content training modules. Total in kind contribution will be \$7,257 plus \$100 fringe.

A ¾ time in Year 1 and 2 and ½ time in year 3 Project Manager will be hired to manage the day to operations of the project including administrative tasks and working with UTEC, other partners and consultants. Total federal cost will be \$105,724.50 plus fringe of \$30,586.10.



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Task: Submit Application - Non-Infrastructure Programs		Applicant Name: Carol McDonough	

We will hire a part time program assistant to work with the PIs and manager who will do general office administrative tasks. Total in kind cost from CFWC will be \$20,000.

Two graduate student research assistants (1 in years 1 and 2) will aid in developing and administering usage and training satisfaction surveys and analyzing data. Federal cost will be \$26,770 plus 1.42% fringe or \$380.13.

Year 1-3, Robin Toof, Associate Director of CFWC, will provide in kind assistance (6% of time) with hiring, project management, survey development and budget management. Total contribution will be \$12,990 plus 28.93% fringe or \$3,758.

In years 1 and 2 five UML student interns who will collaborate with UTEC to provide training and create PSAs will work 36 weeks at 16 hours/week at \$13/hr. Total federal cost will be \$74,880 plus fringe at 1.38% or \$1,033.34.

Subcontacts

We will contract with UTEC for \$206,256 for year 1 and 2. This includes a full time manager and 20% fringe, 6 teens for 20 hours/week for 48 weeks at \$10/hour (who will conduct training and create PSAs) and local travel to other organizations. UTEC will provide \$38,287 in kind contributions (space, labor, broadband access) over the two years.

Other Contractual in kind: Lowell Telecommunications Corp. will provide staff time, usage of studio, control room, and edit suite and video equipment and training totaling \$4,800 over three years. Lowell Housing Authority will provide site usage and broadband access totaling \$60,000 over three years. NKC will provide \$1,500 in computer updating help at Boys & Girls Club. Jean D’Arc Credit Union will provide labor to ask customers about broadband usage and space and labor to promote broadband totaling \$3,940. Boys & Girls Club will provide \$10,000 match in the form of space, labor and supplies.

Consultants

We will hire consultants to provide technical assistance to develop teen and senior health modules and to train youth in video production. This totals \$2,500. We will also hire interpreters and translators where needed for print, radio and TV messages. This totals \$5,000 in years 1 and 2.



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Task: Submit Application - Non-Infrastructure Programs		Applicant Name: Carol McDonough	

Supplies

41 desk top computers will be purchase. 10 will be at UTEC, 10 at Boys & Girls Club, 10 at various CTI sites, 3 at three different housing complexes, 8 at three different senior centers. Federal cost will be \$50,300. Eight printers will also be purchased and placed at various sites at a federal cost of \$1,200. Seventeen wireless hubs will enable two Lowell Housing Authority building to be wireless. One hub will be provided in kind by Jean D’Arc Credit Union (\$400). Federal cost will be \$6,400. Total broadband related equipment cost is \$57,900.

Also, we are requesting \$6,000 total in years 1 and 2 to cover creating and printing public awareness advertising/marketing materials and \$1,000 for various software. We will utilize as much open source software as possible. An additional \$4,000 in kind from CFWC will also be used for advertising and marketing.

Travel

We request \$528 for local travel to the partner sites. This calculates at 20 miles/week for weeks at .55 mile in years 1 and 2.

Other

We request funding for the curriculum fee for the three research assistants. This totals \$9,000. Also \$250 in year 1 and 2 to Lowell Telecommunications Corp in order to take advantage of their training and usage of their equipment, studios and editing suite. We also request broadband access for one senior center in Lawrence that does not have access at this time. This totals \$1,800 over three years.

Indirects

UMass Lowell’s federal approved indirect rate is 51%.

47. Non-Infrastructure Projects - Budget Reasonableness

Costs associated with this grant are based on existing salary and fringe rates for personnel, prevailing hourly wage rates for youth working on technology-related projects, and the University’s existing technology purchase requirements. A more specific description by budget narrative categories is below.

Personnel: Costs for all UML faculty involved in the project—Carol McDonough, Robert



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Public Computer Centers Program – Sustainable Adoption Program**

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Farrant, Andrew Hostetler, Jessie Heines—are based on their current salary and fringe benefit rates at the University. In-kind contributions by faculty are calculated using the same salary and benefits rates. The three graduate student research assistants' costs are determined using the University and the Graduate Research Students Association contractual salary and fringe rate requirements. Robin Toof, Associate Director of CFWC's grant matching amount is based on her current salary and fringe benefit rates. Compensation rate for five UML interns are determined by the reasonable rate paid in the region for students with technology skills.

Subcontracts: UTEC subcontract costs are calculated by the organization's pay scales and the rates of pay UTEC normally offers to young people working on their projects. In-Kind match figures from our partners is based their individual calculations, which include their space rental and utilities expenses and the hourly compensation rates paid to the individuals responsible for performing the delineated work. Expenses for interpreters and translators and technical consultants to provide broadband content and other assistance are based on a sample of the average hourly rates paid for such work in the grant's target area.

Specified costs for all broadband related equipment, including computer and printer purchases and wireless hubs is derived from consultation with our small business partners and the University's computer-related equipment guidelines.

Other incidental costs to running the program are based on prices taken from a comparison of leading vendors in the region, W.B. Mason and Staples.

Local travel reimbursement rates are based on University rules.

In the 'other' category, the curriculum fee and the costs associated with the Lawrence Senior Center's broadband access fee are based respectively on University policy and current provider monthly charges.

48. Demonstration of Financial Need

Lowell, MA and the Merrimack Valley experienced record levels of home foreclosures and staggering employment loss from late 2007 to the present. In addition, many of the region's cities and towns have wrestled with deep budget cuts, which have resulted in hundreds of municipal layoffs and the dismissal of large numbers of teachers and support workers in the



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

Submitted Date: 8/17/2009 10:16:29 AM		Easygrants ID: 2400	
Funding Opportunity: Public Computer Centers and Sustainable Broadband Adoption		Applicant Organization: University of Massachusetts Lowell	
Task: Submit Application - Non-Infrastructure Programs		Applicant Name: Carol McDonough	

public schools. At the same time, the Commonwealth's aid to cities and towns has diminished as state tax revenues have dropped. As a result, the community partners herein have been forced to make sharp budgetary and program cuts, which translate into impediments to service delivery and constraints on the numbers of clients they can work with or young people they can provide safe educational programming to. CTI, UTEC, Merrimack Valley Elder Services and the Boys & Girls Club are searching for ways to find Neighborhood Stabilization funds and other stimulus dollars.

This grant proposal represents a creative, collaborative effort on the part of these lynchpin organizations and the University to overcome their individual budgetary constraints and do their utmost to provide badly needed services to their constituencies.

49. Historical Financial Statements.

Please refer to upload section at the end of document.

Project Profile: Long Term Sustainability

50. Sustainability.

51 - A. Public Computer Center Sustainability

51 - B. Sustainable Broadband Adoption Sustainability

Working with many community partners, LINK addresses factors contributing to the digital divide through an inter-generational approach that crosses class, ethnic, gender, and racial boundaries. Promoting broadband use while increasing opportunities for greater access, we will create sustained growth in regional broadband demand.

Our strategy for assuring sustainability is embedding computer facilities, training and content within multiple community organizations. By so doing we make it possible for members of our target populations to sample the benefits of broadband. This is the way that we will spread the message that broadband access provides innumerable benefits, including increased access to health, financial, workplace and other vital information.

Our overall objective is to reduce the digital divide by shifting broadband demand from



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“luxury” to “necessity” status, while also increasing public capacity and access points for those who would not otherwise use broadband. We will change the way people think about broadband, to make people in our target population so aware of the benefits of broadband that they consider it a necessity. Once we make a compelling case for connectivity, many households will continue to ‘plug in’ at the conclusion of the three-years.

Greater demand for broadband is likely to encourage competing providers to lease space on existing pipelines, which may lead to lower overall prices or tiered service/price levels. Furthermore, the incremental cost for a provider to offer broadband to an additional residence in an area where the provider offers service is relatively low. Therefore, as more residents subscribe to broadband, the price should fall. This has the potential to create a bandwagon effect increase in sustainable broadband adoptions. Finally, heightened awareness of the benefits of broadband should lead to increased adoption and availability by public facilities such as senior centers and libraries.

A goal is to “train the trainers.” As a result, more members of vulnerable populations, in particular, those in youth centers, WIC programs, and senior centers and senior housing, will have gained fluency in broadband use. It is likely that these individuals will share their training with others. Thus, once skills and knowledge are acquired by this now-disenfranchised segment of the population, there will be a sharply reduced need for training programs for these vulnerable populations. We expect that during this project we will achieve a critical mass of broadband training and education among vulnerable residents. The explosion of broadband skills and knowledge that will result from this project guarantees the sustainability of the project.

Finally, we intend to work with broadband providers over the life of the grant to discuss ways to offer broadband service at more affordable rates, to encourage greater usage and make it possible for our target populations to ‘stay connected’.

Project Profile: Outside Leverage

51. Matching Funds.

Please refer to upload section at the end of document.



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

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Task: Submit Application - Non-Infrastructure Programs	Applicant Name: Carol McDonough

52. Unjust Enrichment

We have not received or applied for any Federal support for non-recurring costs in the area for which we are seeking an award.

53. Disclosure of Federal and/or State Funding Sources

We have not received or requested any Federal or state funding for activities or projects related to this application.

54. Buy American.

Is the applicant seeking an individual waiver of the Buy American provision?

No

Buy American Waiver Request Explanation

H. DOC Environmental Checklist

55. SECTION 1 – Please refer to upload section at the end of document.

I. Compliance and Certification

56. Certification and signature.

Please refer to upload section at the end of the document.



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

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Uploads

The following pages contain the following uploads provided by the applicant:

Upload Name
02. Q24 PCC; Q29 SBA - Management Team Resumes
03. Q26 PCC; Q31 SBA - Organization Chart
04. Q27 PCC; Q32 SBA - Key Partners
05. Q28 PCC; Q33 SBA Partnering: Disadvantaged Bus
06. Q35 PCC; Q40 SBA - Historical Financial Statement
08. Environmental Checklist
09. Compliance and Certifications*
12. SF-424A Budget Information Non-Construction**
13. SF-424B Assurances Non-Construction
18. Authentication*



**Broadband Technology Opportunities Program
Public Computer Centers Program – Sustainable Adoption Program**

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To preserve the integrity of the uploaded document, headers, footers and page numbers have not been added by the system

LINK Management Team Bios

Carol McDonough is a Professor of Economics. Her primary area of teaching and research is microeconomics, especially applied microeconomics. Dr. McDonough has authored numerous articles, papers, and a book chapter on the telecommunications industry, including wireless telephony and broadband, and is a reviewer for several journals in this field. Professor McDonough recently authored an article for the *International Journal of Management and Network Economics* entitled "Public-Private Partnerships for Broadband Buildout." She is the President of Massachusetts Society of Professors at UML, Clerk of the Andover, MA. Zoning Board of Appeals, and a Director of the Jeanne D'Arc Credit Union in Lowell, MA.

Robert Farrant lives in Lowell and is a professor in the UMass Lowell Department of Regional Economic and Social Development. He has extensive experience working on multi-year community-based publicly and privately funded grants and is director of the UMass Lowell Center for Family, Work and Community. He serves as a regional economy analyst for the journal *Massachusetts Benchmarks*, a joint publication of the University of Massachusetts and the New England Federal Reserve Bank. At the University he teaches courses in U.S. history, labor studies, and global development. He received the University of Massachusetts President's Award for Public Service in 1998 and his Department's Teaching Award for 2003 and 1998. He has published numerous academic articles and popular studies and is the editor and/or author of five books. Farrant also writes monthly essays for the Lowell newspaper and is president of the board of directors of the Lowell-based Revolving Museum.

Dayna Brown, Director of Community Programs for Elder Services of the Merrimack Valley graduated from Oberlin College in 1984 with a BA in Government and received a Masters in Gerontology Administration from the Boston College Graduate School of Social Work in 1993. She has worked in the field of aging since 1990, including close to ten years with the Elder Service Plan (ESP) at the East Boston Neighborhood Health Center. The ESP in East Boston was the first Program of All-Inclusive Care for the Elderly (PACE) program in the state of Massachusetts. Positions at ESP included going from Adult Day Health Center Manager, to Operations Coordinator to Operations Director. She has been Director of Community Programs and Housing at Elder Services of the Merrimack Valley since November 2002, responsible for managing all activities of the Area Agency on Aging including community and statewide needs assessment, Area Plan development, and coordination of new and existing community based programs and services. She also works closely with community partners regarding the development, planning, and coordination of all activities related to federal and state housing ventures and projects for the agency.

Greg Croteau has been the Executive Director of the United Teen Equality Center for nine years. He has an MSW in Social Work from the University of Michigan. UTEC's mission is to be a youth-led safe-haven for youth development and grassroots organizing. Through intensive street outreach, UTEC serves over 1,500 youth annually and over 150 youth every day (ages 13-23), particularly those most often overlooked and labeled as

“at-risk.” UTEC was recently recognized as Citizen’s Bank and the New England Cable Network’s Community “Champion in Action” and honored by the Robert Wood Johnson Foundation as a model for violence prevention. Over the past nine years UTEC has grown from its initial funding of approximately \$25,000 to a nearly one million dollar a year key community organization in downtown Lowell, Massachusetts.

Karen Frederick is the Executive Director of Community Teamwork, Inc. and has worked at CTI since 1978. She now oversees an agency with a \$56 million budget and 430 employees. Frederick has a bachelor's degree in psychology from Merrimack College and a master's degree in child development from Tufts University. In 2006 Girls Incorporated of Greater Lowell named her its Woman of the Year. CTI is a private, non-profit Community Action Agency established in 1965 with a mission is to assist low-income people to become self-sufficient, to alleviate the effects of poverty, and to assist low-income people to participate in the decisions that affect their lives. CTI's core service area is Greater Lowell.

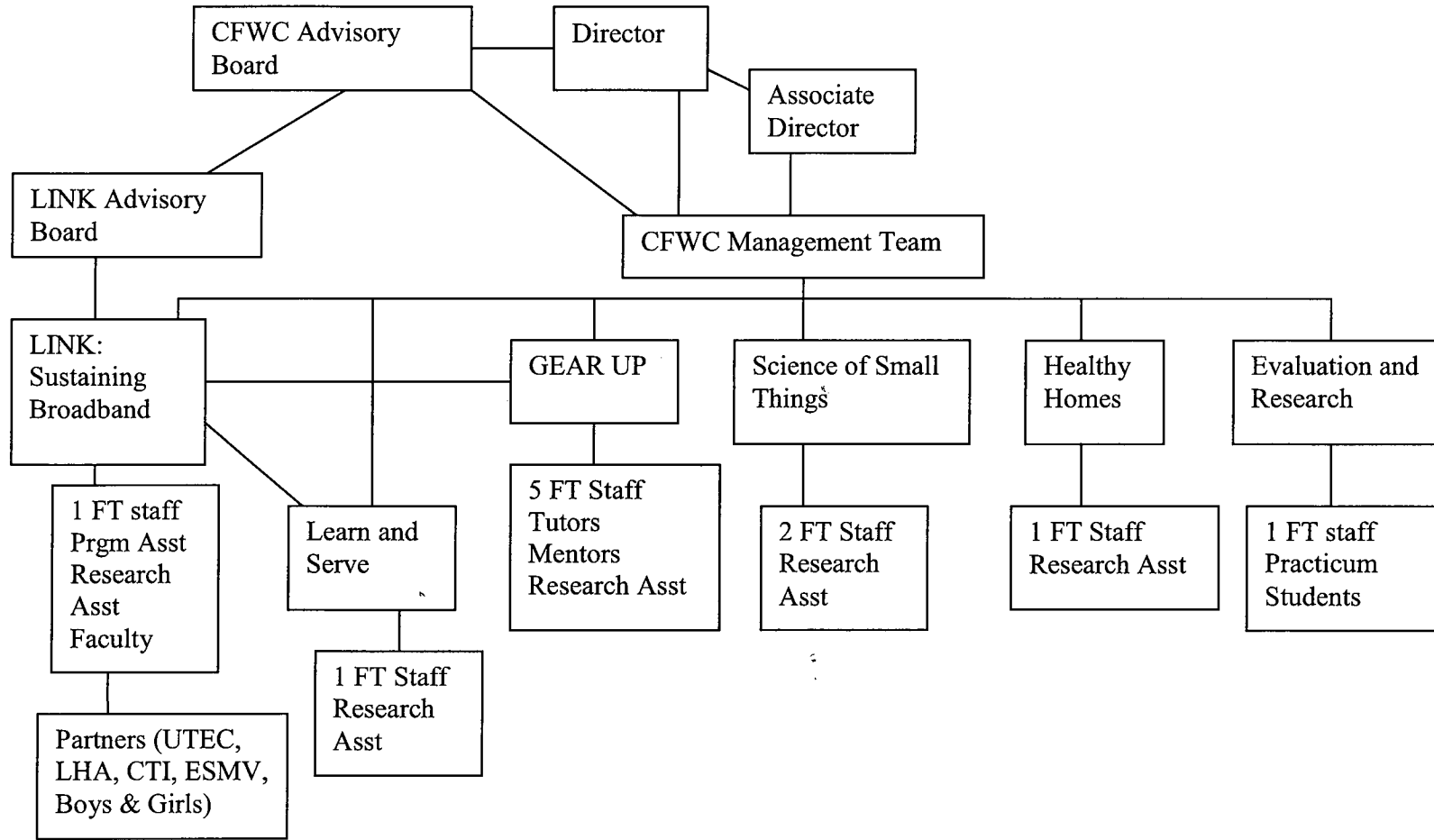
Jim Hayes, of the Lowell Housing Authority has managed computer networks for the past 20 years, and is currently involved in transitioning traditional server room technology into more energy efficient virtual machines. He received his B.A. in English from the University of Lowell, and his Master of Information Science and Policy from the State University of New York at Albany. Jim has extensive experience working with public libraries in the development of public computer areas, and in the training of the public in the use of the Internet along with basic computer and word processing skills.

Michelle Hatem Meehan is the President and Chief Professional Officer of the Boys & Girls Club of Greater Lowell, Inc. She is responsible for the overall management and operation of the 55,000 square foot facility, staff, youth development programs, resource development, and Board and Trustee development. The club serves over 4000 youth members between the ages of 7-18 with a budget of \$1.2 million. Her current professional affiliations include the Nonprofit Alliance of Greater Lowell, Merrimack Valley Economic Development Council and the City Manager’s Gang Advisory Task Force.

Eleanor Pye, Executive Director of Lowell Telecommunications Corporation (LTC), attended Emerson College in Boston, where she earned her Bachelor of Science and Masters of Arts degrees in Mass Communications, concentrating on video production. As the Executive Director at Somerville Community Access Television in Somerville, MA, Ms. Pye oversaw the facility's transition from analog to digital production, editing, and playback. In 2004, Ms. Pye left Somerville to oversee the start-up of a newly formed, independent community access facility in North Andover, MA. Again, she faced the task of converting the entire facility into the digital age. This time, however, without any additional support staff. Community response was overwhelmingly positive, heightening visibility of the local TV stations as well as creating a valuable and local resource for technology, training, and information. After her arrival at LTC in June 2008, the facility upgraded its channels playback system to accommodate video on demand as well as more current and interactive channel bulletin capabilities. Currently, LTC is in the planning and testing stages of building a citywide, free wireless Internet network.

Robin Toof, MA, Acting Director of Center for Family, Work and Community at the University of Massachusetts Lowell has her master's degree in Community Social Psychology and a certificate in Regional Economic and Social Development and is a doctoral candidate at UMass Boston in Higher Education Administration. She has worked in the field of research and evaluation, community partnerships, program management and facilitation for almost 20 years. Agencies and/or projects that she has been involved in include: CDC-funded Cambodian Community Health 2010 health disparities reduction program; four Center for Substance Abuse Prevention projects located in Lowell, Worcester and Lawrence; Lowell Police Department's Weed and Seed and Problem Solving grants; Lowell School Department's health curriculum; Elder Service of the Merrimack Valley and Lowell Housing Authority's partnership to improve services to elders and disable residents; and Family Service, Inc's HIV/AIDS prevention program for Latinas and AMIGOS mentoring program. She also has facilitated numerous teambuilding, training and strategic planning workshops for corporate, non-profit, college and youth work teams.

Center for Family, Work and Community Organizational Chart with LINK





A Community
Technology
Center

Robin Toof, Acting Director
UML Center for Family, Work & Community
600 Suffolk Street
Lowell, MA 01854

Public Access
Training and
Programming

Community
Computing
Center

Dear Ms. Toof:

This is to acknowledge that Lowell Telecommunications Corporation will provide the following services to the Center for Family, Work and Community:

Training (2)	\$ 200.00
Staff Time (2 days @ \$500/day)	\$1,000.00
Studio and Control Room (6 hours @ \$300/hr)	\$1,800.00
Edit Suite (8 hours @ \$150/hr)	\$1,200.00
Portable Video Equipment (2 days @ \$300/day)	\$ 600.00
Total	\$4,800.00

Yours truly,



Dan Toomey,
Community Programming Director
Lowell Telecommunications Corporation

Lowell Telecommunications Corporation
246 Market Street; Lowell, MA 01854 978-458-5400



United Teen Equality Center

August 3, 2009

Broadband Technology Opportunities Program
National Telecommunications and Information Administration
US Dept of Commerce
1401 Constitution Avenue, NW
HCHB Room 4812
Washington, DC 20230

To whom it may concern:

This letter is to certify that the United Teen Equality Center (UTECE) has agreed to partner with the University of Massachusetts, Lowell to carry out a Broadband Initiatives Program in Lowell, MA.

UTECE is a youth-led safe-haven for youth development and grassroots organizing. Serving over 1,900 youth annually, UTECE has created a multicultural place of belonging that emphasizes the holistic development of Lowell's young people, ages 13-23, who are most often overlooked and labeled as "at-risk." To achieve this mission, UTECE offers programs in outreach and gang peacemaking, education and workforce development, arts and health and wellness, and civic engagement. Peace, positivity and empowerment is the motto of UTECE.

Through this Broadband Initiatives Program UTECE will be able to enhance its mission through adding free access to technology for hundreds more young people through an expansion of our technology lab. In addition, the Broadband Initiatives Program will provide training and employment opportunities for young people in the technology field. Many of the young people we work with do not have an employment track record, and 43% of the youth we serve have dropped out of school. This program will help young people access alternative education programs, employability training, and secure real employment in a relevant field, and in a supportive environment.

UTECE will agree to house an open, free and accessible technology lab for youth and young adults at our facility, and provide facilities for training for youth employees, and workspace for the training staff for the program. As per the requirement of the grant, UTECE will provide a 20% match for all funds sub-granted to us through this program.

If you have any questions, please call me at my office. My number is 978-856-3990, and my email address is gregg@utec-lowell.org.

Sincerely,

Gregg Croteau
Executive Director



**BOYS & GIRLS CLUB
OF GREATER LOWELL, INC.**

August 10, 2009

To Whom It May Concern:

I am writing this letter in support of the University of Massachusetts Lowell's grant proposal for LINK: Lowell Internet Network and Knowledge initiative. This project comes as a critical time, as low-income youth and families in the Lowell area lag behind in access to technology and web-based information. We are eager to help our 3000 youth members and their families learn about Internet use and act as a strategic point of computer access in the Lowell community. We have partnered with UMass Lowell's Center for Family Work and Community on various projects over the past 10 years, including Gear Up (*Gaining Early Awareness and Readiness for Undergraduate Programs* funded by the US Department of Education).

The Boys & Girls Club of Greater Lowell intends to work with UMass Lowell's CFWC to drastically increase and support broadband usage for our 3000 youth members and their families through targeted training workshops, expansion of our institutional computer capacity by creating a public center with ten computers, and through dissemination of content materials through our established membership and institutional networks. We will provide \$10,000 of in-kind matches for the LINK initiative, consisting of facility use (\$3000), personnel time and expertise (\$6,000), and other materials (\$1,000).

We offer the LINK project at UMass Lowell our fullest support. For further information, please contact me at (978) 458 4526.

Best regards,

Michelle Meehan
President & Chief Professional Officer
Boys & Girls Club of Greater Lowell

Lowell Housing Authority

350 Moody Street • PO Box 60 • Lowell, Massachusetts 01853-0060 • (978) 937-3500
 Fax: (978) 937-5758 • TDD: 1-800-545-1833 Ext. 178 • www.lhma.org



Gary K. Wallace
 Executive Director

August 11, 2009

Mark A. Paton
 Chairman
 Walter J. Flynn, Jr.
 Vice Chairman
 James P. Hall
 Rosaline Willie-Bonglo
 Michael G. Zaim
 Commissioners

Broadband Technologies Opportunities Program
 U.S. Department of Commerce

Dear Sir/Madam:

The Lowell Housing Authority (LHA) is pleased to support and partner with the University of Massachusetts Lowell on the application for funding of their proposed LINK Program that will provide accessible broadband internet access and reduce the digital divide that many of our residents have experienced.

The Lowell Housing Authority was founded in 1937. We currently manage 1,872 units of public housing and 1,246 units of Section 8. The LHA mission is to provide decent, safe, and sanitary housing thereby improving the quality of life for low-income, elderly, families, disabled and handicapped individuals. In addition, we are committed to improving quality of life issues for our residents and the larger Lowell community by improving education and employment opportunities.

As a partner in this proposed project, LHA will participate as an active member in regular partnership meetings, utilize staff to disseminate information about the project, and recruit elderly/disabled persons to participate in the program that will provide access to broadband internet. The LHA will also provide space in our elderly/disabled developments for vulnerable low-income seniors/disabled persons to participate in on-site computer centers that will allow them increased internet access to broadband thus reducing a sense of isolation from the outside world. The total value of this in-kind support is twenty thousand dollars (\$20,000) per year of the grant. As Executive Director of the LHA I am authorized to make this commitment.

The LHA welcomes this initiative to partner in a program such as this that can positively impact the quality of life for many of our low-income families and help bridge the digital divide that many of them experience. The University of Massachusetts Lowell is highly esteemed in the community and has demonstrated its ability to successfully implement technology oriented projects.

Sincerely,

 Gary K. Wallace
 Executive Director

Cc: Dr. Carol McDonough, Professor of Economics
 University of Massachusetts Lowell

"A STRONG COMMITMENT TO RESIDENT INITIATIVES"



Toof, Robin

From: Cochran, Mark [mark.cochran@jdcu.com]
Sent: Tuesday, August 11, 2009 2:04 PM
To: McDonough, Carol; Milinazzo, James
Cc: Boyle, Peter; Toof, Robin; Cox, Patricia
Subject: RE: BTOP grant proposal

Carol:

As you know, Jim Milinazzo is on vacation so I will try to help you with your request. Please see my responses next to your questions below. If there is anything else you need please let me know!

Best wishes with the grant proposal!

Mark

From: McDonough, Carol [mailto:Carol_McDonough@uml.edu]
Sent: Tuesday, August 11, 2009 10:44 AM
To: Millnazzo, James
Cc: Cochran, Mark; Boyle, Peter; Toof, Robin
Subject: RE: BTOP grant proposal

Jim

We are down to the wire on this proposal (deadline tomorrow!) and realize we do not have documentation on the dollars of match, as required by the contract.

JDCU has offered to partner by

* sponsoring a WiFi connection We need a price estimate for this. Ellie Pye at LTC has costed out other Wifi's for us: \$400 device and \$40/month connection, for a total of \$1840 over the three years of the project. JDCU of course will select its equipment and provider, so your numbers may be different. Could we have an estimate of your cost, and a statement that you are providing this as a project match? You can use the \$1,840 cost over three years as Jeanne D'Arc's estimate as well. We are willing to provide that as a project match.

* Administer, or invite a UML student to administer, survey questionnaires asking customers about reasons for internet usage or nonusage. The institution might take this opportunity to discuss its online services with customers. Can you estimate your cost for this, personnel, space, etc. as we are trying to bulk up our match. We estimate our personnel cost to be \$1,000 (one week's man-time) and space costs to be \$250 for a total of \$1,250. If this were to be a mailing, then there would be postage expense, however we could not estimate the volume of customers that would be targeted at this time.

* Distribute/ make available to customers UML-developed content materials on the usefulness of broadband access. Can you estimate your cost for this, personnel, space, etc. as we are trying to bulk up our match. You may use the same cost estimate as above (total of \$1,250)

Thanks Jim for your help. Please email your letter showing dollars of total match, broken down by category, no later than tomorrow AM if at all possible.

Many thanks carol

8/11/2009

Elder Services of the Merrimack Valley, Inc.

Choices for a life-long journey

August 10, 2009

Broadband Technologies
Opportunities Program
U.S. Department of Commerce

To whom it may concern:

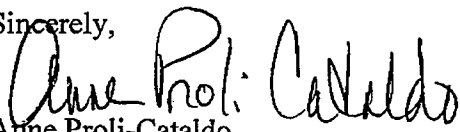
On behalf of Elder Services of the Merrimack Valley, I am writing to express our support for the application of the University of Massachusetts Lowell (UML) to promote sustainable broadband adoption/demand. We also look forward to our potential partnership with UML on the implementation of this project as it relates to elders.

Elder Services is a "one-stop, one-call" resource and referral center for services and programs serving older adults and people with disabilities in the Merrimack Valley, developed during the past 35 years. The continuum of services provided by Elder Services ranges from resource and referral services, elder care management to education and advocacy and our mission is "to insure choices of programs and services are available and accessible to meet the diverse needs and changing lifestyles of older adults."

The project being proposed by UML, which focuses on vulnerable populations such as seniors, who have relatively low levels of broadband use, is very compatible with the work that Elder Services accomplishes on a daily basis with thousands of elders across twenty-three cities and towns in the Merrimack Valley. Elder Services is fully in support of the UML project, which will bridge this digital divide by providing broadband access together with training and content development services. The project will provide computer equipment and broadband access to three Senior Centers (with Lawrence as the largest center) and content development and training materials to all twenty-three centers.

Thank you for the opportunity to provide this letter of support and, again, we look forward to our partnership with UML to implement this important project.

Sincerely,


Anne Proli-Cataldo
Associate Executive Director



Karen Nastasia Frederick
Executive Director

Donald R. Washburn
President

Thomas A. Joyce
Vice President

Germaine Vigeant Trudel
Treasurer

Glenn Goldman
Assistant Treasurer

Sheila Och
Clerk

August 12, 2009

Dr. Carol McDonough
University of Massachusetts at Lowell
One University Avenue
Lowell, MA 01854

Dear Doctor McDonough:

Community Teamwork, Inc. is pleased to be a partner of the University of Massachusetts at Lowell in your proposed Broadband Technology Adoption Program with funding from the United States Department of Commerce. As the Community Action Agency for the City of Lowell and the surrounding towns, CTI is committed to helping the low-income people of Greater Lowell to become self-sufficient, and access to broadband technology is a key element of self-sufficiency in the world today. The availability of jobs and the means to carry out many of them are available at much greater speeds via broadband than virtually any other means. CTI's service areas extend far beyond Greater Lowell. As the Convener of the Merrimack Valley Network to End Homelessness, we strive to give the homeless and those at risk of homelessness from the New Hampshire border to the Atlantic Ocean the chance to become self-sufficient. Our service area as the Northeast Regional Housing Agency and Housing Consumer Education Center for Northern Middlesex County and most of Essex County, CTI tries to help hundreds more low-income people from beyond our basic service area to become or remain self-sufficient and healthy.

CTI's offices at 167 Dutton Street (Housing and Homeless Services), 45 Kirk Street (Fuel Assistance, Energy, WIC (Women, Infants and Children Supplementary Nutrition Program)), 126 Phoenix Avenue (Head Start, Early Head Start, Full Day Child Care, etc.) serve more than 2,500 low-income people per year. Surely a significant number will avail themselves of the computers available at these three (3) sites.

The value of the rental space for 10 computer workstations is approximately \$13,000 (this includes the rental value of the space and the cost of computer maintenance and repair provided by CTI's technology staff.)

Expanding broadband access to our low-income clients is critical as we support their efforts to achieve self-sufficiency. We look forward to partnering with UML on this important undertaking.

Sincerely,

A handwritten signature in black ink, appearing to read "Karen N. Frederick", is written over a horizontal line.

Karen N. Frederick
Executive Director

Community Teamwork, Inc.
167 Dutton Street, Lowell, MA 01852

Phone: 978-459-0551

www.comteam.org

Fax: 978-453-9128

Toof, Robin

From: McDonough, Carol
Sent: Tuesday, August 11, 2009 5:00 PM
To: Toof, Robin
Subject: FW: btop proposal with u mass lowell

here is the letter from Norm. he is providing at least 1500 in inkind services. c

-----Original Message-----

From: Norman E. Morin [mailto:nmorin@nkcsystems.com]
Sent: Tue 8/11/2009 4:48 PM
To: McDonough, Carol
Cc: 'Norman E. Morin'
Subject: RE: btop proposal with u mass lowell

hi Carol,

If I am able to sell 40 computers, I can donate \$500/yr for service.

That is VERY reasonable. Please be advised that the \$500 is an estimate and

I would be willing to donate more time if the need arises."

Here is the revised letter..

To whom it may concern,

NKC Systems has committed to partnering with U Mass Lowell on the BTOP proposal.

NKC Systems will provide computers @ \$1299.99. The specifications for the system are:

- intel e5200 processor
- intel dg31 motherboard (or equivalent intel motherboard)
- 2 G memory
- 250G hard drive
- DVD +rw drive
- Keyboard and mouse
- Vista home or xp home
- thin or standard mini tower
- 19" lcd screen (if internal speakers available)

This price will include 3 years of support.
Vandalism is excluded.

NKC Systems will also provide in-kind support for existing systems at sites that are chosen for the program. NKC Systems will contribute \$500 per year for in-kind service for existing hardware at the sites chosen by BTOP. NKC Systems will consider donating more service time if there is a need.

Norman E. Morin

nmorin@nkcsystems.com

www.nkcsystems.com

office: 978-453-1355

cell: 978-996-2854



August 12, 2009

Department of Commerce

Re: BTOP , University of Massachusetts, Lowell

To Whom It May Concern:

We are a small business partnering with the University of Massachusetts Lowell, along with additional several Community Partners, for the development of WiFi locations in Lowell and perhaps elsewhere in the Merrimack Valley.

Sincerely,

A handwritten signature in black ink, appearing to be "Colin King". The signature is fluid and cursive, with a large initial "C" and "K".

Colin King

Vice President

H. DOC Environmental Checklist

46. SECTION 1- To be completed for those projects historically shown not to create significant environmental impacts to the human or natural environment. Any answer of "No" or "Unknown" may require additional documentation or review.

a. Is the proposed action solely a procurement action for materials intended to be installed, stored or operated in an existing building or structure?

- Yes
- No
- Not Applicable

b. If the proposed action involves procurement of electronic equipment, will the equipment be disposed of in an environmentally sound manner at the end of its useful life?

- Yes
- No
- Not Applicable

c. Does the proposed action involve only minor interior renovations to a structure, facility, or installation?

- Yes
- No
- Not Applicable

d. Is the proposed action solely for the production and/or distribution of informational materials, brochures, or newsletters?

- Yes
- No
- Not Applicable

we are proposing to do both of these

e. Does the proposed action consist solely of training, teaching, or meeting facilitation at an existing facility or structure?

- Yes
- No
- Not Applicable

Certifications and Signature

(i) I certify that I am authorized to submit this grant application on behalf of the eligible entity(ies) listed on this application, that I have examined this application, that all of the information and responses in this application, including certifications, and forms submitted, all of which are part of this grant application, are material representations of fact and true and correct to the best of my knowledge, that the entity(ies) that is requesting grant funding pursuant to this application and any subgrantees and subcontractors will comply with the terms, conditions, purposes, and federal requirements of the grant program; that no kickbacks were paid to anyone; and that a false, fictitious, or fraudulent statements or **claims** on this application are grounds for denial or termination of a grant award, and/or possible punishment by a fine or imprisonment as provided in 18 U.S.C. § 1001 and civil violations of the False Claims Act.

(ii) I certify that the entity(ies) I represent have and will comply with all applicable federal, state, and local laws, rules, regulations, ordinances, codes, orders and programmatic rules and requirements relating to the project. I acknowledge that failure to do so may result in rejection or deobligation of the grant or loan award. I acknowledge that failure to comply with all federal and program rules could result in civil or criminal prosecution by the appropriate law enforcement authorities.

(iii) I certify that the entity(ies) I represent has and will comply with all applicable administrative and federal statutory, regulatory, and policy requirements set forth in the Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements ("DOC Pre-Award Notification"), published in the Federal Register on February 11, 2008 (73 FR 7696), as amended; DOC Financial Assistance Standard Terms and Conditions (Mar. 8, 2009), the Department of Commerce American Recovery and Reinvestment Act Award Terms (Apr. 9, 2009); and any Special Award Terms and Conditions that are included by the Grants Officer in the award.

(iv) If requesting BTOP funding, I certify that the entity(ies) I represent has secured access to pay the 20% of total project cost or has petitioned the Assistant Secretary of NTIA for a waiver of the matching requirement or received a waiver.

Signature of authorized person *Linda Concino* Date August 14, 2009

Print name of authorized person Linda Concino

Title or position Proposal Development Manager

BUDGET INFORMATION - Non-Construction Programs**SECTION A - BUDGET SUMMARY**

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Broadband Technology Opportunities Program	11.557	\$	\$	\$783,094.67	\$195,998.45	\$ 979,093.12
2.						0.00
3.						0.00
4.						0.00
5. Totals		\$ 0.00	\$ 0.00	\$783,094.67	\$195,998.45	\$ 979,093.12

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
a. Personnel			248,057.94	68,819.00	316,876.94
b. Fringe Benefits			32,561.01	4,252.45	36,813.46
c. Travel			1,056.00		1,056.00
d. Equipment					0.00
e. Supplies			64,900.00	4,400.00	69,300.00
f. Contractual			213,756.00	118,527.00	332,283.00
g. Construction					0.00
h. Other			11,050.00		11,050.00
i. Total Direct Charges (sum of 6a-6h)	0.00	0.00	571,380.95	195,998.45	767,379.40
j. Indirect Charges			211,713.72		211,713.72
k. TOTALS (sum of 6i and 6j)	\$ 0.00	\$ 0.00	\$ 783,094.67	\$195,998.45	\$979,093.12

7. Program Income	\$	\$	\$	\$	0.00

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ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a -1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

<p>* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL</p> <p><i>Linda Concino</i></p>	<p>* TITLE</p> <p>Proposal Development Manager</p>
<p>* APPLICANT ORGANIZATION</p> <p>University of Massachusetts Lowell</p>	<p>* DATE SUBMITTED</p> <p>8/14/09</p>

Certification Requirements for BTOP

U.S. Department of Commerce
Broadband Technology Opportunities Program

I certify that I am the duly authorized representative of the applicant organization, and that I have been authorized to submit the attached application on its behalf. A copy of the applicant organization's authorization for me to submit this application as its official representative is on file in the applicant's office, and I am identified as the applicant organization's Authorized Organization Representative (AOR) in the Central Contractor Registration database. By signing this certification, I certify that the statements contained in the application are true, complete, and accurate to the best of my knowledge, and that if an award is made, the applicant organization will comply with all applicable award terms and conditions.

August 14, 2009

(Date)

Linda Concino

(Authorized Representative's Signature)

Linda Concino

Name:

Proposal Development Manager

Title:

BUDGET INFORMATION - Non-Construction Programs

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
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2.						0.00
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5. Totals		\$ 0.00	\$ 0.00	\$783,094.67	\$195,998.45	\$ 979,093.12

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
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k. TOTALS (sum of 6i and 6j)	\$ 0.00	\$ 0.00	\$ 783,094.67	\$195,998.45	\$979,093.12

7. Program Income	\$	\$	\$	\$	\$ 0.00

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ASSURANCES - NON-CONSTRUCTION PROGRAMS

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As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
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17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

<p>* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL</p> <p><i>Linda Concino</i></p>	<p>* TITLE</p> <p>Proposal Development Manager</p>
<p>* APPLICANT ORGANIZATION</p> <p>University of Massachusetts Lowell</p>	<p>* DATE SUBMITTED</p> <p>8/14/09</p>

CERTIFICATION REGARDING LOBBYING

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying." The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

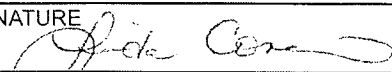
Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

In any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

NAME OF APPLICANT	AWARD NUMBER AND/OR PROJECT NAME
University of Massachusetts Lowell	2400
PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
Linda Concino, Proposal Development Manager	
SIGNATURE	DATE
	10/15/09

Certification Requirements for BTOP

U.S. Department of Commerce
Broadband Technology Opportunities Program

I certify that I am the duly authorized representative of the applicant organization, and that I have been authorized to submit the attached application on its behalf. A copy of the applicant organization's authorization for me to submit this application as its official representative is on file in the applicant's office, and I am identified as the applicant organization's Authorized Organization Representative (AOR) in the Central Contractor Registration database. By signing this certification, I certify that the statements contained in the application are true, complete, and accurate to the best of my knowledge, and that if an award is made, the applicant organization will comply with all applicable award terms and conditions.

August 14, 2009

(Date)

Linda Concino

(Authorized Representative's Signature)

Linda Concino

Name:

Proposal Development Manager

Title:

November 19, 2009

Assistant Secretary
National Telecommunications and Information Administration
U.S. Department of Commerce
Washington, D.C. 20230

Re: NICRA & Legal Opinion - UML

Dear Sir:

As an authorized official for the University of Massachusetts Lowell, (the "Applicant"), we acted as counsel to the Applicant in connection with its ability to apply to the Broadband Technology Opportunities Program and in the review of the grant agreement, as referenced in the Notice of Funds Availability.

We are of the opinion that:

(a) the Applicant is a duly organized and existing [legal entity] under the laws of the Commonwealth Of Massachusetts.

(b) the Applicant has corporate power: (1) to execute and deliver the agreement; and (2) to perform all acts required to be done by it under said agreement.

(c) no legal proceedings have been instituted or are pending against the Applicant, the outcome of which would adversely affect the Applicant's ability to perform the duties under the grant agreement, and there are no judgments against the Applicant which would adversely affect the Applicant's ability to perform its duties under the grant agreement.

Very truly yours,

A handwritten signature in cursive script, appearing to read "J. da Costa", written in black ink.

CERTIFICATION REGARDING LOBBYING LOWER TIER COVERED TRANSACTIONS

Applicants should review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying."

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

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The undersigned states, to the best of his or her knowledge and belief, that:

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As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

NAME OF APPLICANT University of Massachusetts Lowell	AWARD NUMBER AND/OR PROJECT NAME 2400
---------------------------------------------------------	------------------------------------------

PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE Linda Concino, Proposal Development Manager

SIGNATURE 	DATE 10/15/09
--------------------------------------------------------------------------------------------------	------------------

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure.)

Approved by OMB
0348-0046

1. Type of Federal Action: <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. Report Type: <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change For Material Change Only: year _____ quarter _____ date of last report _____
4. Name and Address of Reporting Entity: <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known: N/A Congressional District, if known:	5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime: Congressional District, if known:	
6. Federal Department/Agency: N/A	7. Federal Program Name/Description: N/A CFDA Number, if applicable: _____	
8. Federal Action Number, if known:	9. Award Amount, if known: \$	
10. a. Name and Address of Lobbying Registrant (if individual, last name, first name, MI): N/A	b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI):	
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature: <u>[Signature]</u> Print Name: <u>Linda Concino</u> Title: <u>Proposal Development Mgr.</u> Telephone No.: <u>778-934-4723</u> Date: <u>11/12/09</u>	
Federal Use Only:	Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)	

**BTOP Public Computer Center and Sustainable Broadband Adoption
Detailed Budget Template
Department of Commerce**

Easy Grants ID: 2400
 Applicant: University of Massachusetts Lowell
 Project Title: Lowell Internet, Networking and Knowledge (LINK): Sustaining Broadband Access Across the Generations

SF-424A Object Class Category	General	Detail						
		Position	Federal Support	Matching Support	Total	# of Positions	Salary	% Time Spent on Project
a. Personnel - List position, number of staff, annual salaries, % time spent on project	Principle Investigator	8,468.32	4,839.00	\$13,307.32	1	\$126,324.00	11	\$13,307.32
	Co-Principle Investigator	5,856.20	4,685.00	\$10,541.20	1	\$129,889.00	9	\$10,541.20
	Project Manager	42,487.50		\$42,487.50	1	\$55,000.00	75	\$42,487.50
	Research Assistant	13,385.00		\$13,385.00	1	\$13,385.00	100	\$13,385.00
	Student Interns	37,440.00		\$37,440.00	5	\$7,488.00	100	\$37,440.00
	Administrative Director		4,330.00	\$4,330.00	1	\$71,095.00	6	\$4,330.00
	Administrative Assistant		9,863.88	\$9,863.88	1	\$9,863.88		\$9,863.88
	Subtotal		\$107,637.02	\$23,717.88	\$131,354.90			

b. Fringe Benefits - Include salaries and fringe rate.	Position	Federal Support	Matching Support	Total	# of Positions	Salary	% Time Spent on Project	Fringe Rate	Total
	Principle Investigator	\$116.86	\$66.78		1	\$126,324.00	11	1.38	
	Co-Principle Investigator	\$80.82	\$64.65		1	\$129,889.00	9	1.38	
	Project Manager	\$12,291.63			1	\$55,000.00	75	28.93	
	Research Assistant	\$190.07			1	\$13,385.00	100	1.42	
	Student Interns	\$516.67			5	\$7,488.00	100	1.38	
	Administrative Director		\$1,252.67		1	\$71,095.00	6	28.93	
	Administrative Assistant		\$136.12		1	\$9,863.88	\$100.00	1.38	
Subtotal		\$13,196.05	\$1,520.22	\$14,716.27					

c. Travel - For significant costs, include details such as number and purpose of trips, destinations.	Purpose of Trip	Federal Support	Matching Support	Total	# of Trips	Cost per Trip	Total
	Local to organizations	\$528.00			960 total miles	.55/mile	\$528.00
	Subtotal	\$528.00	\$0.00	\$528.00			\$528.00

d. Equipment Costs - List equipment with # of units and unit costs. Distinguish between equipment intended for applicant use versus equipment for the end user.	Equipment Description	Federal Support	Matching Support	Total	#Units	Unit Cost	Total
Applicant Equipment							
User Equipment	Computers/monitors/service						\$0.00
	Computers/monitors						
Subtotal			\$0.00	\$0.00			\$0.00

e. Supplies - List costs associated with materials/printing, curriculum, translations, and other supplies		Federal Support	Matching Support	Total	#Units (If Applicable)	Unit Cost (If Applicable)	Total
Description							
Advertising/Marketing		\$3,000.00		\$3,000.00			\$3,000.00
Training Supplies			\$200.00	\$200.00			\$200.00
Office Supplies			\$1,000.00	\$1,000.00			\$1,000.00
				\$0.00			\$0.00
Subtotal		\$3,000.00	\$1,200.00	\$4,200.00			

f. Contractual - List contractors with purpose of contract, hourly rate or total fixed rate. List any subgrantees with subgrant amounts.		Federal Support	Matching Support	Total	# Hours (If Applicable)	Hourly Rate (If Applicable)	Total Contract
Contractor							
NKC (computer service)			\$500.00	\$500.00			500.00
Lowell Telecomm (staff, studio time, equip usage, editing)			\$1,600.00	\$1,600.00			1,600.00
Lowell Housing Authority (space, broadband)			\$20,000.00	\$20,000.00			20,000.00
Boys and Girls Club Greater Lowell (space, broadband)			\$3,333.00	\$3,333.00			3,333.00
Jean D'Arc Credit Union (2 hubs, labor to advertise)			\$1,313.00	\$1,313.00			1,313.00
Video Training		\$250.00		\$250.00	20	25	250.00
Translation/Interpretation		\$2,500.00		\$2,500.00	200	25	2,500.00
Subgrantee							Subgrant Amount
United Teen Equality Center (computer trng and site mangmnt)		\$103,128.00	\$19,143.28	\$122,271.28			122,271.28
Subtotal		\$105,878.00	\$45,889.28	\$151,767.28			

g. Construction - If applicable, list construction costs not included in the SF-424C		Federal Support	Matching Support	Total			
Description							
Subtotal		\$0.00	\$0.00	\$0.00			

h. Other - List other costs not listed above such as technology (website hosting, internet connection), advertising (TV, radio, online), etc.		Federal Support	Matching Support	Total	#Units (If Applicable)	Unit Cost (If Applicable)	Total
Description							
Curriculum Fee for Grad Research		\$3,000.00		\$3,000.00			\$6,000.00
Lowell Telecomm Membership fee to use video equip		\$125.00		\$125.00			\$125.00
Broadband Access fo one site without		\$600.00		\$600.00			\$600.00
Subtotal		\$3,725.00	\$0.00	\$3,725.00			

i. Total Direct Charges (sum of a-h)		\$233,964.07	\$72,327.38	\$306,291.45			
j. Indirect Charges	Indirect Rate						
	51% calc on total but only of first 25k of subgrantee	\$79,476.40		\$79,476.40			
Total Eligible Project Costs		\$313,440.47	\$72,327.38	\$385,767.85			
Federal Share Requested		\$313,440.47		\$0.00			
Applicant Share			\$72,327.38	\$72,327.38			

e. Supplies - List costs associated with materials/printing, curriculum, translations, and other supplies							
Description	Federal Support	Matching Support	Total	#Units (If Applicable)	Unit Cost (If Applicable)	Total	
Office Supplies		\$1,000.00	\$1,000.00			\$1,000.00	
Subtotal	\$0.00	\$1,000.00	\$1,000.00			\$0.00	

f. Contractual - List contractors with purpose of contract, hourly rate or total fixed rate. List any subgrantees with subgrant amounts.							
Contractor	Federal Support	Matching Support	Total	# Hours (If Applicable)	Hourly Rate (If Applicable)	Total Contract	
NKC (computer service)		\$500.00	\$500.00			500.00	
Lowell Telecomm (staff, studio time, equip usage, editing)		\$1,600.00	\$1,600.00			1,600.00	
Lowell Housing Authority (space, broadband)		\$20,000.00	\$20,000.00			20,000.00	
Boys and Girls Club Greater Lowell (space, broadband)		\$3,334.00	\$3,334.00			3,334.00	
Jean D'Arc Credit Union (2 hubs, labor to advertise)		\$1,314.00	\$1,314.00			1,314.00	
Subgrantee						Subgrant Amount	
Subtotal	\$0.00	\$26,748.00	\$26,748.00				

g. Construction - If applicable, list construction costs not included in the SF-424C							
Description	Federal Support	Matching Support	Total				
Subtotal	\$0.00	\$0.00	\$0.00				

h. Other - List other costs not listed above such as technology (website hosting, internet connection), advertising (TV, radio, online), etc.							
Description	Federal Support	Matching Support	Total	#Units (If Applicable)	Unit Cost (If Applicable)	Total	
Broadband Access fo one site without	\$600.00		\$600.00			\$600.00	
Subtotal	\$600.00	\$0.00	\$600.00				

i. Total Direct Charges (sum of a-h)		\$38,603.27	\$42,986.10	\$81,589.37			
j. Indirect Charges	Indirect Rate						
	51% calc on total butonly of first 25k of subgrantee	\$19,687.67		\$19,687.67			
Total Eligible Project Costs		\$58,290.94	\$42,986.10	\$101,277.04			
Federal Share Requested		\$58,290.94		\$0.00			
Applicant Share			\$42,986.10	\$42,986.10			

BTOP Public Computer Center and Sustainable Broadband Adoption
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 Applicant: University of Massachusetts Lowell
 Project Title: Lowell Internet, Networking and Knowledge (LINK): Sustaining Broadband Access Across the Generations

YEAR ONE

SF-424A Object Class Category	General	Detail						
a. Personnel - List position, number of staff, annual salaries, % time spent on project	Position	Federal Support	Matching Support	Total	# of Positions	Salary	% Time Spent on Project	Total
	Principle Investigator	8,468.30	4,839.00	\$13,307.30	1	\$126,324.00	11	\$13,307.30
	Co-Principle Investigator	5,856.20	4,685.00	\$10,541.20	1	\$129,889.00	9	\$10,541.20
	Project Manager	41,250.00		\$41,250.00	1	\$55,000.00	75	\$41,250.00
	Research Assistant	13,385.00		\$13,385.00	1	\$13,385.00	100	\$13,385.00
	Student Interns	37,440.00		\$37,440.00	5	\$7,488.00	100	\$37,440.00
	Elder Survey Tech Assistant	1,047.30		\$1,047.30	1	\$68,078.00	1.53	\$1,047.30
	Data base support	1,463.00		\$1,463.00	1	\$95,102.00	1.53	\$1,463.00
	Faculty Community Scholars		2,170.00	\$2,170.00	1	\$108,480.00	2	\$2,170.00
	Faculty Community Scholars		1,930.00	\$1,930.00	1	\$96,532.00	2	\$1,930.00
	Faculty Community Scholars		1,645.00	\$1,645.00	1	\$82,259.00	2	\$1,645.00
	Faculty Community Scholars		1,512.00	\$1,512.00	1	\$75,581.00	2	\$1,512.00
	Administrative Director		4,330.00	\$4,330.00	1	\$71,095.00	6	\$4,330.00
	Administrative Assistant		9,863.88	\$9,863.88	1	\$9,863.88		\$9,863.88
	Subtotal	\$108,909.80	\$30,974.88	\$139,884.68				

b. Fringe Benefits - Include salaries and fringe rate.	Position	Federal Support	Matching Support	Total	# of Positions	Salary	% Time Spent on Project	Fringe Rate	Total
	Principle Investigator	\$116.86	\$66.78		1	\$126,324.00	11	1.38	
	Co-Principle Investigator	\$80.82	\$64.65		1	\$129,889.00	9	1.38	
	Project Manager	\$11,933.03			1	\$55,000.00	75	28.93	
	Research Assistant	\$190.07			1	\$13,385.00	100	1.42	
	Student Interns	\$516.67			5	\$7,488.00	100	1.38	
	Elder Survey Tech Assistance	\$14.45			1	\$68,078.00	1.53	1.38	
	Data base support	\$20.18			1	\$95,102.00	1.53	1.38	
	Faculty Community Scholars		\$29.95		1	\$108,480.00	2	1.38	
	Faculty Community Scholars		\$26.63		1	\$96,532.00	2	1.38	
	Faculty Community Scholars		\$22.70		1	\$82,259.00	2	1.38	
	Faculty Community Scholars		\$20.86		1	\$75,581.00	2	1.38	
	Administrative Director		\$1,252.67		1	\$71,095.00	6	28.93	
	Administrative Assistant		\$136.12		1	\$9,863.88	\$100.00	1.38	
	Subtotal	\$12,872.68	\$1,620.36	\$14,493.04					

c. Travel - For significant costs, include details such as number and purpose of trips, destinations.	Purpose of Trip	Federal Support	Matching Support	Total	# of Trips	Cost per Trip	Total
	Local to organizations	\$527.45			959 total mils	.55/mile	\$527.45
	Subtotal	\$527.45	\$0.00	\$527.45			\$527.45

equipment with # of units and unit costs. Distinguish between equipment intended for applicant use versus equipment for the end user.	Equipment Description	Federal Support	Matching Support	Total	#Units	Unit Cost	Total
Applicant Equipment							
				\$0.00			\$0.00
User Equipment	Computers/monitors/service	\$40,300.00		\$40,300.00	31	\$1,300.00	\$40,300.00
	Computers/monitors	\$10,000.00		\$10,000.00	10	\$1,000.00	\$10,000.00
				\$0.00			\$0.00

Subtotal	\$50,300.00	\$0.00	\$50,300.00			\$0.00
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e. Supplies - List costs associated with materials/printing, curriculum, translations, and other supplies						
Description	Federal Support	Matching Support	Total	#Units (If Applicable)	Unit Cost (If Applicable)	Total
Printers at sites	\$1,200.00		\$1,200.00	8	\$150.00	\$1,200.00
Wireless Hubs	\$6,400.00		\$6,400.00			\$6,400.00
Advertising/Marketing	\$3,000.00		\$3,000.00			\$3,000.00
Training Supplies		\$200.00	\$200.00			\$200.00
Software	\$1,000.00		\$1,000.00			\$1,000.00
Office Supplies		\$2,000.00	\$2,000.00			\$2,000.00
			\$0.00			\$0.00
Subtotal	\$11,600.00	\$2,200.00	\$13,800.00			\$0.00

f. Contractual - List contractors with purpose of contract, hourly rate or total fixed rate. List any subgrantees with subgrant amounts.						
Contractor	Federal Support	Matching Support	Total	# Hours (If Applicable)	Hourly Rate (If Applicable)	Total Contract
NKC (computer service)		\$500.00	\$500.00			500.00
Lowell Telecomm (staff, studio time, equip usage, editing)		\$1,600.00	\$1,600.00			1,600.00
Lowell Housing Authority (space, broadband)		\$20,000.00	\$20,000.00			20,000.00
Boys and Girls Club Greater Lowell (space, broadband)		\$3,333.00	\$3,333.00			3,333.00
Jean D'Arc Credit Union (2 hubs, labor to advertise)		\$1,313.00	\$1,313.00			1,313.00
Teen Health Content Developer	\$1,000.00		\$1,000.00	40	25	1,000.00
Senior Citizen Health Content developer	\$1,000.00		\$1,000.00	40	25	1,000.00
Video Training	\$250.00		\$250.00	20	25	250.00
Translation/Interpretation	\$2,500.00		\$2,500.00	200	25	2,500.00
Subgrantee						Subgrant Amount
United Teen Equality Center (computer trng and site mangmnt)	\$103,128.00	\$19,143.28	\$122,271.28			122,271.28
Subtotal	\$107,878.00	\$45,889.28	\$153,767.28			

g. Construction - If applicable, list construction costs not included in the SF-424C						
Description	Federal Support	Matching Support	Total			
Subtotal	\$0.00	\$0.00	\$0.00			

h. Other - List other costs not listed above such as technology (website hosting, internet connection), advertising (TV, radio, online), etc.						
Description	Federal Support	Matching Support	Total	#Units (If Applicable)	Unit Cost (If Applicable)	Total
Curriculum Fee for Grad Research	\$6,000.00		\$6,000.00			\$6,000.00
Lowell Telecomm Membership fee to use video equip	\$125.00		\$125.00			\$125.00
Broadband Access for one site without	\$600.00		\$600.00			\$600.00
Subtotal	\$6,725.00	\$0.00	\$6,725.00			

i. Total Direct Charges (sum of a-h)	\$298,812.93	\$80,684.52	\$379,497.45			
j. Indirect Charges						
Indirect Rate						
51% calc on total but only of first 25k of subgrantee	\$112,549.66		\$112,549.66			
Total Eligible Project Costs	\$411,362.59	\$80,684.52	\$492,047.11			
Federal Share Requested	\$411,362.59		\$0.00			
Applicant Share		\$80,684.52	\$80,684.52			

\$783,094.00 \$195,998.00