

# Educational Technology

## Fund Code 170-B

### Technology Enhancement Competitive Grant Descriptions 2006-07

#### Boston Public Schools

*Project Title: SELECT Math: One on One; Supporting Engaged Learning by Enhancing Curriculum with Technology*

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#### **Project Overview:**

Select Math: One on One is based on the successful SELECT Math Project (<http://www.selectmath.com/>), a nationally recognized initiative funded by NCLB 170-B grants since 2002, and focused on the effective use of technology in Boston's mathematics classrooms. The SELECT Math Project provides professional development activities and materials that enable teachers to effectively integrate technology into mathematics teaching and learning in classrooms throughout Boston. SELECT Math: One on One will continue and expand upon the SELECT Math Project by leveraging student laptops as a vehicle for Universal Design in order to enhance teacher effectiveness in the efficient differentiation of classroom instruction. Using the SELECT Math professional development model, teachers will receive ongoing, embedded support through both experienced Boston mathematics coaches and Office of Instructional and Information Technology staff.

#### Chicopee Public Schools

*Project Title: Technology Tools Empower Chicopee High Career Academies*

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#### **Project Overview:**

Chicopee High School is initiating three Career Academies for students in Grades 11 and 12, beginning in Fall 2006. Career Academies are designed to prepare a broad cross section of students for both college and work. They are organized as schools-within-schools, and they integrate academic courses with applied coursework centered around a career theme. They also establish partnerships with local employers in an effort to strengthen connections between school and the world of work, providing students with a range of career development and work-based learning opportunities. This grant funds the professional development of teachers to use MassOne, existing laptops, and other hardware to write and present curriculum, as well as to collaborate with each other and with students. This grant also funds an after-school technology support center (for teachers and students).

## **Gateway Regional School District (partnering with Easthampton Public Schools and Hampshire Regional School District)**

***Project Title:** Tech Trek: The Path to Sustaining Educational Technology in Our Schools*

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### **Project Overview:**

The Tech Trek dissemination project will prepare teachers and administrators in two pilot districts to understand the benefit of this technology and to be able to differentiate instruction using technology to meet the needs of all learners. By the completion of this pilot project, the three school districts will have a fully trained cohort of classroom leaders prepared to use technology throughout their curriculum. The project goals are 1) to bring Easthampton and Hampshire Regional to a state of readiness to achieve all Tech Trek essential conditions, 2) to offer high quality professional development that meets and exceeds the Massachusetts Teacher Technology Standards, 3) to build a searchable repository of exemplary online lesson plans that make accommodations to differentiate instruction, 4) to provide monthly training sessions to parents and students in the use of laptops in Year II, 5) to develop leadership capacity among a cadre of teachers at the three Western MA school districts, and 6) to fully implement a sustainable 1-to-1 laptop leasing program by the end of Year II.

## **Springfield Public Schools**

***Project Title:** MassONE VISION PLC: Virtual Instructional Support using Innovative Online Professional Learning Communities*

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### **Project Overview:**

MassONE VISION PLC is a virtual professional learning community working collaboratively to improve student achievement by focusing on data-driven instruction, thematic standards-based unit planning and the integration of one-to-one computing using mobile carts in academic teams in the middle school. Through online professional development and support, teachers and administrators will utilize MassONE to understand how analyzing data regarding student work can drive instruction and improve student learning. Professional development and group discussion will include the effective integration of one-to-one computing in middle school through standards-based thematic units incorporating math, science, English language arts, and social studies. Academic team teachers will receive professional development

and support as they create their virtual professional learning community, integrate technology into the daily life their classrooms, and use data to drive instruction through collaborative experiences grounded in students' work.

## **Taunton Public Schools**

**Project Title:** *One-to-One Writing Instructions with MY Access and MassONE Support*

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### **Project Overview:**

The Taunton Public Schools, in partnership with the Coyle and Cassidy High School, will improve both the ELA/writing skills and the technological literacy of its middle and high school students by utilizing one-to-one computing, via wireless laptops, and the MY Access online process writing software. Over the course of the two-year project the district will utilize MassONE to provide staff with online professional development opportunities and focus groups related to the effective integration of technology into instruction. Additionally, face-to-face professional development will also be provided.

## **Upper Cape Cod Regional Technical School**

**Project Title:** *Upper Cape Tech Wireless Initiative (UCTWI)*

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### **Project Overview:**

Upper Cape Cod Regional Technical School will study the impact of 1-to-1 computing on teaching and learning. The school will provide 44 freshmen, over a two-year period, with 1-to-1 laptop computers, which will be used in academic courses, shop, and at home. Students will be randomly selected from a large group of freshmen functioning two to four years below grade level in reading. Students will move through their academic schedule as a cohort, having the same courses and instructors for all classes. Similarly, another cohort will be randomly selected with the same achievement profiles as the students in the laptop group, and they will stay together throughout the academic day, without laptops. Teachers working with the laptop group will receive professional development through a UMass Boston hybrid course. Face-to-face instruction combined with coaching will help teachers develop skills with MassONE and online learning. The achievement of the laptop group as compared to the control group will be determined through grades in academics and shop, as well as performance on the Stanford 10 Achievement Test in reading. The impact on teaching will be measured by MassONE's Technology Self-Assessment Tool (TSAT) and surveys.