

Agency: Commerce, Community and Economic Development**Grants to Municipalities (AS 37.05.315)****Grant Recipient: Juneau****Federal Tax ID: 92-0038816****Project Title:****Project Type: Information Systems and Technology**

Juneau - Floyd Dryden Middle School Computer Replacement

State Funding Requested: \$100,000**House District: Juneau Areawide (3-4)**

One-Time Need

Brief Project Description:

Replace obsolete computers at Floyd Dryden Middle School.

Funding Plan:

Total Project Cost:	\$100,000
Funding Already Secured:	(\$0)
FY2013 State Funding Request:	<u>(\$100,000)</u>
Project Deficit:	\$0

*Funding Details:**No previous funding history.***Detailed Project Description and Justification:**

Fifty-five percent of the computers at Juneau's middle schools are older than six years. The serviceable life of a computer is typically four years. As of the 2012-2013 school year, the vendor will no longer support programs on the older computers because of new requirements for flash drive function. It is necessary to replace the obsolete computers with ones that can be serviced. As technology advances it is important students are provided with the tools to further their education.

Dryden students' learning has suffered a significant disadvantage and negative impact as a result of the accumulated effect of aging technology. A "tipping point" was reached for our students this school year due to three fundamental and primary technology components that are now all three obsolete: processors in the computer labs and Dryden's one mobile cart, the operating systems in the same, and software versions for the same. The processors in Dryden's aged eMacs and MacBooks are too slow to efficiently support today's software, if they can even run a given software application at all. The most recent operating systems available to our kids are OS X 10.4 and OS X 10.5, which will not run many of the programs used in education today. The outdated operating systems will not allow most new versions of programs to even be downloaded, much less supported with efficacy. We cannot update the operating systems because now the aging processors will not support newer operating system versions. To put it in perspective, the most recent operating system version is OS X 10.7.3, and Apple is about to release OS X 10.8. We reached the "tipping point" when software program versions most widely used cannot be run at all on our current platforms. As a result of both frustration and the loss of significant amounts of instructional time while attempting to use our antiquated technology to enhance and accelerate students' academic growth this year, most Dryden teachers have now stopped integrating anything except the most basic technology with their instruction. The above budget allocations will allow Dryden students access to the tools they need to support their learning in today's classrooms.

Equipment purchases will include 60 MacBook Pros to create two mobile labs for student use, 2 Bretford Mobility Carts for above MacBook Pros, 30 iPad 2's to create one mobile lab for student use, 1 Bretford PowerSync Cart for above 30 iPad 2's and 15 NEC Projector Bulbs

Project Timeline:

Purchases will be made in the first quarter of Fiscal Year 2013 in advance of the start of the 2012-2013 school year.

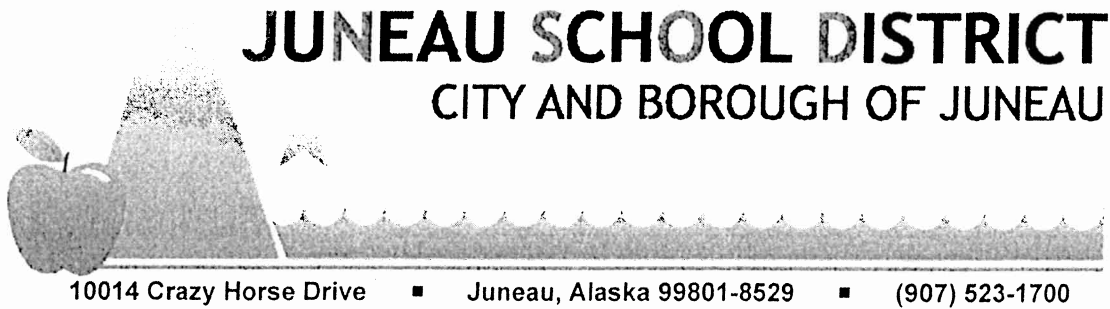
Entity Responsible for the Ongoing Operation and Maintenance of this Project:

Juneau School District

Grant Recipient Contact Information:

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Has this project been through a public review process at the local level and is it a community priority? Yes No



**BOARD OF EDUCATION 2012 CAPITAL FUNDS NEEDS
FOR CONSIDERATION BY THE LEGISLATIVE DELEGATION**

REPLACE OBSOLETE COMPUTERS AT JUNEAU-DOUGLAS HIGH SCHOOL, GRADES 9-12

\$100,000

Forty-six percent (46%) of the computers at Juneau-Douglas High School (serving approximately 800 students and about 75 staff) are more than seven (7) years old. A number are damaged and cannot be repaired because parts are no longer produced. (The serviceable life of a computer is typically four (4) years.) Computers in the library and on the desk of about half of the teachers are more than ten (10) years old. A high-end publishing lab is outdated which impacts the yearbook and business classes. Since a legislative/AASB grant in 2008, all 175 ninth graders create and organize their academic work on school-issued laptops. As those laptops age or no longer can be repaired, the inventory becomes increasingly inadequate to assure that all freshmen have this academic tool. This will buy replacement computers for Juneau-Douglas High School.

REPLACE OBSOLETE COMPUTERS AT FLOYD DRYDEN MIDDLE SCHOOL, GRADES 6-8

\$100,000

Fifty-five percent (55%) of the computers at Floyd Dryden Middle School are older than six (6) years. (The serviceable life of a computer is typically four (4) years.) All 550 students read daily; comprehension is assessed daily as well, using the Accelerated Reader program. As of the 2012-2013 school year, the vendor will no longer support the program on older computers because of new requirements for flash drive function. This school has made its own considerable investment in technology, including math practice hand-held devices (called Flash Master) and a student-run daily television program. This replaces obsolete computers at Floyd Dryden Middle School.

REPLACE OBSOLETE COMPUTERS AT MENDENHALL RIVER COMMUNITY SCHOOL, GRADES K-5

\$100,000

Nearly all of the approximately 100 computers serving nearly 400 students and more than half of the computers used by about 50 staff are older than six (6) years. (The serviceable life of a computer is typically four (4) years.) Literacy is a priority in the Juneau School District and is especially important in grades K-2; increasingly, effective individualized literacy learning for our youngest students is through computers and age-appropriate applications. A kindergarten class is the site of a small, innovate technology initiative using four (4) i-pads to support literacy,. The early results are amazing! Children, particularly boys, who have trouble focusing, clamor to use the i-pads and sustain their individually paced, hands-on literacy exercises. This request includes purchase of a mobile cart of i-pads to enhance K-2 literacy.

REPLACE OBSOLETE COMPUTERS AND CREATE MOBILE INFRASTRUCTURE AT THE MONTESSORI BOREALIS PROGRAM, GRADES 1-8

\$55,000

All of the few computers used in the Montessori Program (a Juneau School District public school option) are over six (6) years old. (The serviceable life of a computer is typically four (4) years.) After a decade of being split up amongst various classroom sites around the District, the program's six (6) classrooms and 135 students moved into contiguous space in a former middle school. The classrooms do not have adequate wireless capacity. Montessori supports individually paced learning and wishes to replace the outdated static lab it inherited with mobile technology.

REPLACEMENT OF THE MASTER CLOCK SYSTEM AT JUNEAU-DOUGLAS HIGH SCHOOL

\$30,000

The master clock system at Juneau-Douglas High School (JDHS) was installed during a renovation in 1984 and is antiquated and unreliable. This erratic system leads to tardiness and attendance issues along with being labor intensive - an inordinate amount of labor hours are spent troubleshooting as many parts and components are no longer manufactured or available.

A wireless clock system that uses Global Positioning has proven effective in the Juneau School District's latest renovations and construction projects. These systems control and synchronize all building clocks to within 1/30th of one (1) second.

Estimate of funds needed to replace the Master Clock and 150 building clocks at JDHS that is comparable to other District systems is \$30,000.

PLAYGROUND EQUIPMENT FOR RIVERBEND ELEMENTARY SCHOOL

\$30,000

Currently the playground at Riverbend Elementary School has playground equipment designed for children aged 5-12. There is a need for age appropriate playground equipment for students in the District's Integrated Preschool Program that serves children between the ages of 3-5 some of whom have developmental delays while other children exhibit developmentally appropriate skills and can serve as peer role models. Riverbend Elementary School currently has three (3) preschool classes with plans to expand to four (4) classes during the 2012-2013 school year. This request would provide early childhood equipment to fit the developmental needs of these students. Equipment that is being required would include appropriate sized and accessible items such as swings, a small play structure with learning stations, and a small climbing/balance structure.

JUNEAU-DOUGLAS HIGH SCHOOL MAIN GYMNASIUM REPAIRS

\$35,000

This request is for the replacement of the motor operators and related equipment and materials for the six (6) basketball backstops and for a large divider curtain in the main gymnasium at Juneau-Douglas High School. The current items are from the original construction of the gym in 1956 and over the years have begun to fail, resulting in concerns for student safety related to the backboards not being able to be raised when the gym's bleacher seating is used and for not being able to operate the divider curtain as needed to separate spaces and provide a visual barrier during physical education classes. When these antiquated systems fail there are added maintenance expenses for repairs along with safety concerns for workers completing the repairs.

ENERGY SAVING LIGHTING REPLACEMENT - MENDENHALL RIVER COMMUNITY SCHOOL

\$150,000

The Mendenhall River Community School in the Mendenhall Valley was built in 1983. This large elementary school has never been renovated and the existing hallway and large common areas are lit with metal halide light fixtures that consume 175 watts. The Juneau School District proposes the replacement of these energy inefficient lights with compact fluorescent light fixtures.

Floyd Dryden Middle School

	units	price		total price
Desktops (iMac)	40	\$1,149.00		\$45,960.00
Laptops (MacBooks)	41	\$1,099.00		\$45,059.00
Software				\$3,240.00
Document Cameras	5	\$500.00		\$2,500.00
TOTAL				\$96,759.00