

# Board of Education Capital Plan FY16-FY21

**PROJECT TITLE:** THS Science Lab Tech Upgrades

**DATE SUBMITTED:** 9/30/2015

## DEPARTMENT PROJECT INFORMATION

Department:	Information Technology				
Department Contact:	Adam Sher				
Fiscal Year(s) Requested:	FY12017	FY2018	FY2019	FY2020	FY2021
Department Priority:	Critical	High	Medium	Low	
Type of Project:	Vehicle	Equipment	Technology	Facility	Other

## PROJECT DESCRIPTION

Update and enhance the classroom technology available to science teachers at Tolland High School. Includes the purchase of digital microscopes, interactive projection systems, document cameras, and network switches.

- 48 High School grade Digital Microscopes
- 8 Interactive Projection Systems
- 8 Document Cameras
- 1 Switch chassis, necessary modules and power supplies

## PROJECT NEED

Impact on Department if Recommended or Not Recommended:

Science students will go without classroom technology that will aid in their educational experience.

Cost to Maintain:

Describe all Benefits and/or Savings:

The demands of the 21st century require our students to learn the necessary technological skills to function effectively and support themselves in the future. "By 2020, 65 percent of all jobs—compared to 28 percent in 1973—will require some form of postsecondary education", according to a new report from the Georgetown University Center on Education and the Workforce. The National Association of Manufacturers reports more than 600,000 unfilled jobs this year. There simply aren't enough workers with the science, technology, engineering and math (STEM) knowledge and skills needed for these and other high-tech, high-skill jobs. Schools must prepare our students now, and that preparation must start at an early age. Supporting our curriculum with the necessary tools is imperative to adequately prepare students for their high-tech futures.

**PROJECT BUDGET AND FUNDING SOURCES**

<b>Project Cost Summary, Recommended Financing Sources, &amp; Operating Budget Impact</b>						
<b>Project Cost Elements</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY2020</b>	<b>FY2021</b>	<b>TOTAL</b>
Feasibility Study						
Design - Engineering						
Site Acquisition						
Site Improvements						
Construction						
Inspection Services						
Equipment & Furnishings			\$56,761			\$56,761
Vehicle Purchase						
Other						
Contingency						
<b>TOTALS</b>			<b>\$56,761</b>			<b>\$56,761</b>
<b>Financing Sources</b>						
Lease-Purchase						
Water Enterprise Funds						
Sewer Enterprise Funds						
Solid Waste Enterprise Funds						
Storm Water Enterprise Funds						
State / Federal Grants						
Sale of Surplus Property						
CPA						
Other (specify)						
City Appropriation						
<b>TOTALS</b>						

## THS Science Lab Technology Upgrades

Item	Qty	Cost ea.	Total
HS Digital Microscope	48	\$ 500	\$ 24,000
Interactive Proj. System	8	\$ 3,000	\$ 24,000
Document Camera	8	\$ 200	\$ 1,600
Switch Chassis	1	\$ 4,634	\$ 4,634
Switch Modules (24 pt or 20 +4)	1	\$ 1,530	\$ 1,530
Switch Chassis Redundant PS	1	\$ 752	\$ 752
Swich Rack Mounting Kit	1	\$ 245	\$ 245
<b>Total</b>			<b>\$ 56,761</b>

Digital microscope pricing is an estimate based on current criteria for a range of microscope options to be selected at the time of purchase. Costs will be different base on grade and curricular need.

Document camera prices fluctuate considerably with changing technology.  
Amount is estimated for bulk order at time of purchase



Pricing Proposal  
 Quotation #: 11653927  
 Created On: 6/1/2016  
 Valid Until: 6/30/2016

**TOLLAND PUBLIC SCHOOLS**

**Adam Sher**

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**Business Development Manager**

**Jeff Levin**

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All Prices are in US Dollar (USD)

Product	Qty	Your Price	Total
1 Epson BrightLink 595Wi - LCD projector - 3300 lumens - WXGA (1280 x 800) - 16:10 - HD - LAN with 2 years Epson Road Service Program Epson - Part#: V11H599022	1	\$2,069.70	\$2,069.70
2 Epson BrightLink 585Wi - LCD projector - 3300 lumens - WXGA (1280 x 800) - 16:10 - HD - ultra short-throw lens - LAN with 2 years Epson Road Service Program Epson - Part#: V11H600022	1	\$1,898.00	\$1,898.00
3 Epson BrightLink 575Wi - LCD projector - 2700 lumens - WXGA (1280 x 800) - 16:10 - HD - LAN Epson - Part#: V11H601022	1	\$1,725.40	\$1,725.40

The district will be purchasing the Epson BrightLink 595Wi  
 Additionally, installation is being estimated at \$940 per projector to  
 account for labor cost inflation

Subtotal \$5,693.10  
 Total \$5,693.10

**Additional Comments**

Pricing per MHEC MC11-F05

The Products offered under this proposal are subject to the SHI Return Policy posted at [www.shi.com/returnpolicy](http://www.shi.com/returnpolicy), unless there is an existing agreement between SHI and the Customer.



Pricing Proposal  
 Quotation #: 10376391  
 Created On: 10/2/2015  
 Valid Until: 10/30/2015

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## TOLLAND PUBLIC SCHOOLS

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## Business Development Manager

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Product	Qty	Your Price	Total
1 HP 5406R 44GT PoE+ / 4SFP+ (No PSU) v3 z12 Switch - Switch - managed - 44 x 10/100/1000 (PoE+) + 4 x 1 Gigabit / 10 Gigabit SFP+ - rack-mountable - PoE+ Hewlett Packard Enterprise - Part#: JL003A	1	\$4,633.90	\$4,633.90
2 HP - Power supply ( plug-in module ) - 1100 Watt - United States - for HP 5406R, 5406R z12, 5412R, 5412R z12 Hewlett Packard Enterprise - Part#: J9829A#ABA	2	\$752.40	\$1,504.80
3 HP Management Module - Network management device - plug-in module Hewlett Packard Enterprise - Part#: J9827A	1	\$1,530.00	\$1,530.00
4 HP X450 4U/7U Universal - Rack mounting kit - for HP 5406R, 5406R z12, 5412R, 5412R z12 Hewlett Packard Enterprise - Part#: J9852A	1	\$244.30	\$244.30
		Subtotal	\$7,913.00
		Total	\$7,913.00

### Additional Comments

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