HENRY FORD COLLEGE
Technology Investment Fund (TIF)
Application for Funding

This form and any attachments must be submitted electronically to the chairperson of the Technology Investment Committee by the published deadline date. (This application may be submitted as a document separate from the attachments.)

Please read the Outline of Approval Process and Expectations of Applicants/Project Directors on the last page, and check the box stating that you agree to the terms of the expectations.

Date of Application: 2/27/2019	**Strategic Planning Initiative ID #:** 1860
Project Name: Classroom Technology Upgrade in E-231 and E-234	**Total TIF Funds Requested:** $51,140.70
Project Director(s): Mark Siedlik and James Blair	**Department/Division/School:** ELEC. TECH/IND. TECH./BEPD

Summary of Project
(Please limit to one paragraph.)

Replace 13 eight-year-old computers in room E-231, and replace 10 fourteen-year-old computers in room E-234.

Add computer projectors, data drops, and ELMOs to rooms E-231 and E-234.

Purchase 18 Siemens software licenses (3 six-packs of Simatic Step 7 Professional 2017 V15 software.

Detailed Description of Project

Describe your project as specifically as possible. What do you propose to do, and why do you propose to do this?

Our students use Microsoft Office products to prepare reports and use Multisim to design and simulate circuits before going into lab. To quote Rick Hatala, the computers in room 234 "are some of the oldest on campus" and will not run the new version of Multisim anymore. Multisim is an Electrical Circuit design and simulation software that our two main transfer universities (EMU and WSU) use in their Electrical Engineering Technology programs.

Student Impact

How many unique students will be served each academic year (Fall through Summer) by your project? The term "unique students" refers to unduplicated headcount. Provide detail (course numbers; titles; and enrollments, for example).

With the recent transfer of the 58 students in Engineering Technology–Electrical program to the School of BEPD, the combined enrollment in the Electrical program is 258 students: 200 Electrical Technology plus 58 Engineering Technology-Electrical.

Project Relevance to Technology Investment Committee Guidelines
(Address only those that apply.)

Explain how the project provides technology to multiple courses or programs.

Microsoft Office and Multisim are used in almost all our courses in Electrical Technology.

Explain how the project introduces student access to technology where it has not been available.

The computers in E-234 are so old they are virtually useless. The computers in E-231 are very slow when making circuit design and simulation.

Explain how the project promotes innovation.

James Blair, Mark Siedlik, and Nick Kussy are writing new lab experiments for the courses they teach using Multisim.

Explain how the project promotes curricular revision.

See above.

Explain how the project supports areas that have established themselves as leaders using technology.

HFC is the leader in Automation Controls and Instrumentation; that is where our students land high-paying jobs.

Are you pursuing additional funding sources? If so, what are they?

Most of our lab fee budget is already used up by expendable supplies.

Project Budget

What will be purchased? (Include model numbers, if appropriate.) What is the cost? Include amounts that are committed from funds other than the Technology Investment Fund, and indicate the source of those other funds.

23 computers @ $1,129.90 each = $25,987.70
Room 231 technology upgrade = $9,799.00 (data drop not needed)
Room 234 technology upgrade = $9,999.00
18 Siemens software licenses = $5,355.00

Total = $51,140.70

From where will funds for future maintenance needs, consumables, and such come?

Forward any support for your budget (quotes, for example) to the chairperson of the Technology Investment Committee, and indicate here what has been forwarded.

Quote from Canton Computers and Technology Upgrade Planning Sheet from Fred Steiner
Quote from Electro-Matic Products, Inc.

Rank your needs so that the Technology Investment Committee will have guidance should only partial funding be available to recommend.

Room E-234 is an extremely high priority because the ten computers are 14 years old and are obsolete. The 8-year-old computers in room E-231 are very slow.

Multisim is on the network, so any minor changes students make to their circuit takes 3-4 minutes.

Project Location and Equipment Security

Describe specifically where items to be purchased will be located or installed. Forward to the chairperson of the Technology Investment Committee room-layout diagrams if appropriate.

Rooms E-231 and E-234

Indicate the status of any necessary approvals for using the space in which items will be located or installed.

None

Who, specifically, will do the installation?

Information Technology Department

How will equipment purchases be secured?

Have a quote from Fred Steiner.

Have you discussed with the Executive Director of Facilities Services to determine what, if any, infrastructure modifications are required to support this project such as electrical upgrades, locks, etc.? What has been determined?

No. Request is not for upgrade but for replacement.

Have you discussed with the Director of Network and IT Infrastructure to determine what, if any, software and/or network infrastructure modifications are required to support this project? What has been determined?

Yes. Joe Zitnik stated that, because the quote will have to go out for bid, the final cost will probably be below the estimated budget.

Evaluation
How, specifically, will you determine the success or shortcomings of your project? Students will be able to use Microsoft Office for their reports and Multisim for circuit design and simulation. We will survey our students and Technical Advisory Committee. After this equipment and curriculum is implemented and once it is marketed, we should see an increase in enrollment.

TIF Funding: Outline of Approval Process and Expectations of Applicants/Project Directors

1. Your project must be consistent with the description of the purpose of the Technology Investment Fund (See II.D.210 in the Faculty Organization Handbook.) and must have been submitted as part of your division's operational plan. Assuming that your project has not been funded otherwise (from general College funds or through Perkins funding, for example), you may complete and submit the application for TIF funding by the announced deadline.

2. A meeting will be scheduled for you to present your project to the Technology Investment Committee. You will be asked to give a short presentation and to take questions from Committee members about your project. The Committee will then meet to determine whether to recommend funding for your project. Please remember that even projects with great apparent merit may not be recommended for funding due to limited funds or other factors.

3. The recommendations of the Technology Investment Committee are forwarded to the President for consideration. Should your project be recommended by the Committee for funding and should the President concur with that recommendation, the funding request is placed before the Board of Trustees for consideration.

4. If your funding request is to be brought before the Board, the Technology Investment Committee Chair will notify you of the date of the Board meeting at which your request will be discussed. You or someone familiar with your project should plan to attend that meeting to answer any questions Board members may have.

5. The Board of Trustees will not actually vote whether to allocate funds for your project until the meeting following the meeting at which your project is discussed. The Board generally does not ask further questions about projects during the meeting in which it takes the vote. The Technology Investment Committee Chair will notify you of the outcome of the Board's vote.

6. Assuming that the Board votes to allocate funds to your project, you will work with the Office of Financial Services and Auxiliary Services and with Purchasing to use your funding to complete your project. (A copy of your proposal will be forwarded to the Purchasing Director.) You are responsible for coordinating the work to be done to complete your project including any tasks required during the Spring and Summer semesters.

7. During the third full semester (Fall or Winter semester) following the semester during which your funding is awarded, you will be asked to provide a written report evaluating your project and to present this report to the Technology Investment Committee.

☒ I (We) have read the TIF Outline of Approval Process and Expectations of Applicants/Project Directors and do agree with the terms of the expectations.

Name(s):   Mark Siedlik

Date: 2/27/2019

Multimedia and LCD Data Projector Installations
Order Checklist

✓	Item Description	Recommended Product	Recommended Vendor	Contact	Estimated Unit Cost
	REQ 1:				
☐	Electrical Work: Upgrade electrical service in the following Room(s): <specify building and room number(s)>. New equipment to be installed includes: <list all items included in the project; e.g., Ceiling-mounted LCD Data Projector, DVD/VCR Player, Document Camera, Computer and Monitor, Powered Speaker(s), etc. >		Bid	Sandro Silvestri	$ 2500/Room
	REQ 2:				
☐	Data Drop(s) for Computer, Printer, etc.		Grit Technologies	Joe Zitnik	$ 200/Drop
	REQ 3:				
☐	Lockdown Devices for Computer.	Computer Lockdown, parts / Computer Lockdown, labor	Business Machine Security	Rick Hatala	$ 220/parts / $ 30/labor
☐	Lockdown Devices for Document Camera.	Doc Cam Lockdown, parts / Doc Cam Lockdown, labor			$ 165/parts / $ 25/labor
	REQ 4:				
☐	Instructor's Desk for Computer, Monitor, Document Camera, etc.	Steelcase Custom Configuration	Lincoln Office Solutions	Fred Steiner	$ 1,500.00
	REQ 5:				
☐	Computer and Monitor	per IT Services spec's	Bid	Joe Zitnik	$ 1,100.00
	REQ 6:				
	AV Equipment and Installation:				
☐	Projector, Hitachi, 3700 ANSI Lumen, XGA 1024 x 768, 20,000:1	Hitachi CP-EX3551WN			$ 675.00
☐	Replacement Lamp with Filter for Hitachi CP-EX3551WN Projector	Hitachi Model DT02081			$ 150.00
☐	60" LCD Full HD TV, Commercial Grade	Sharp Model PN-LE601			$ 1,200.00
☐	75" LED Display, Commercial Grade, 3-Year Warranty, (3) HDMI Inputs Minimum	Samsung Model QB75N			$ 2,200.00
☐	Lumens Ladibug Document Camera, Portable, Full HD 1080P, HDMI, SD Card	Lumens Model DC-170			$ 550.00
☐	Da-Lite Model C Screen with CSR, Square Format, 8x8, Matte White	Da-Lite Part 79862			$ 530.00
☐	Da-Lite Floating Mounting Bracket for Model C Screen, 1 Pair	Da-Lite Part 77027			$ 75.00
☐	Atlas Sound 100W Amplifier, pole mount	Atlas Sound Model PA1001G			$ 350.00
☐	Atlas Sound 5.25" surface mount speakers, 1 Pair	Atlas Sound Model SM52T-WH			$ 325.00
☐	Atlas Sound, 4 Coaxial in-ceiling speakers, 1 Pair	Atlas Sound Model FAP42T			$ 199.00
☐	Kramer Room Controller, 6 Button	Kramer Model RC-76R			$ 350.00
☐	Kramer Matrix Switch	Kramer Model VS-62H			$ 680.00
☐	Kramer Custom Double Gang Wall Plate, Stainless Steel, Etched Lables	Custom			$ 150.00
☐	BMS Locking LCD Projector Mount, small 12.0"W x 13.5"D	Business Machine Security (BMS) Model LCD LOC II	Bid	Adam Cloutier	$ 200.00
☐	BMS Ceiling Plate and Extension Column for above LCD Projector Mount (for rooms without a drop ceiling)	BMS			$ 50.00
☐	BMS Tilting TV Mount Lockdown	BMS Model FPM-T-MED			$ 220.00
☐	Kensington ClickSafe Master Leyed Lock (for Lumens DC170 Ladibug Doc Cam)	Kensington Model K64663US			$ 50.00
☐	Universal Cable Lock (plates & cable locks for desktop equipment)				$ 75.00
☐	WattBox Power Strip, 10-outlet	WattBox Model WB-400-CE-10			$ 100.00
☐	Cables - HDMI				$ 300.00
☐	Cables - Data				$ 50.00
☐	Cables - XLR Speaker Wires				$ 50.00
☐	Cables - Desktop				$ 50.00
☐	Miscellaneous Installation Material				$ 200/Room
☐	Installation Labor				$ 600/Room

ELECTRO-MATIC PRODUCTS, INC.

ELECTRO-MATIC PRODUCTS, INC.
23409 INDUSTRIAL PARK CT
FARMINGTON HILLS, MI 48335
USA
248-478-1182

QUOTATION

Bill To:

HENRY FORD COMMUNITY COLLEGE
5101 EVERGREEN ROAD
DEARBORN, MI 48128
US

313-845-6420

Customer ID: 119410

Ship To:

HENRY FORD COMMUNITY COLLEGE
5101 EVERGREEN ROAD
DEARBORN, MI 48128
US

Requested By: Jim Blair
Ship Via: FDG FEDEX GROUND

Job:

PO Number	FOB	Terms	CSR
	ORIGIN	NET 30 DAYS	BJTATE

Line#	Ordered	Allocated	Remaining	UOM Unit Size	Item ID / Item Description	Pricing UOM Unit Size	Unit Price	Extended Price
					Thank you for your business. If you have any questions or concerns, please feel free to call customer service at 248-478-1182 or email ecustomerservice@electro-matic.com			
001	3.00	0.00	3.00 EA	1.0	6ES78221BA054YA5 SIMATIC STEP7 PROFESSIONAL V15 2017 NOT RETURNABLE OR CANCELLABLE.	EA 1.0	1,785.0000	5,355.00

Total Lines: 1

SUB-TOTAL:	5,355.00
TAX:	0.00
AMOUNT DUE:	5,355.00
	U.S. Dollars