



Henry Ford Community College
Technology Investment Fund
Project Funding Request



This application form with original signatures must be received by the Vice President/Controller's office by 4:00 p.m. on either **the first Friday after Labor Day** (Fall semester) **or the third Friday in January** (Winter semester) in order to be eligible for funding. Applications will only be accepted on this form. Applications must include an Executive Summary which will be shared with the Campus Community. **(Attach additional sheets for any section needed.)**

Date of Application: Jan 2012	Project Type: <input type="checkbox"/> New <input checked="" type="checkbox"/> Upgrade/Expansion
Project Director: Dr. George Popovich Department/Division: Fine Arts and Fitness; The Virtual Theatricality Lab	How many students will directly benefit from the project? 250-300 per year from Theatre, VTL, Art, and TCM. Total TIF Funds Requested: 130,697.10

Problem Statement

Define the problem/idea. (What do you want to do? Why?)	This request is for a high-definition 3D stereo projection system to fit the width and height of the Adray Stage. This is a permanent installation and will become part of the stage machinery/hardware of the Adray Stage. This will enable the VTL to resume productions and to teach 3D stereo production techniques to Theatre, Art, VTL, and TCM students.
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Evidence for Project Validity

What resources do you have/use now?	None. Video projectors purchased in 2000 no longer work.
Why can't you use your existing resources to do this project?	The video projectors are burned out.
What evidence do you have that this project will be successful? (Cite specific information.) <ul style="list-style-type: none">• Current research• Examples from other schools or teachers• Letters of support from experts in the field• Your own past experience.	Previous VTL Productions were successful: http://vtl.hfcc.edu/productions/tempest http://vtl.hfcc.edu/productions/skriker

Relevance to Technology Investment Committee Guidelines

(Address only those that apply.)

INNOVATION:	Yes. No college has achieved the goals proposed herein, especially the large size (35'x15') of the 3D projections.
Is the proposal innovative to the field of Instructional Technology?	
Is the proposal innovative to HFCC?	Yes. We are not aware of any disciplines on campus that use 3D stereoscopic projection systems.
Is the proposal innovative to the specific discipline?	Yes. No one has achieved the goals proposed herein on the scale proposed herein, especially in the discipline of Theatre.
NEED:	Yes, it is necessary to the instructional design of HFCC's Digital Theatre classes. All of these classes need large format projection support:
Is the proposal essential for the instructional design?	
Does it create new programs or courses with the potential for increased student enrollment?	<p>STH 262-Introduction to Motion Capture</p> <p>STH 263-Intermediate Motion Capture</p> <p>STH 264-Advanced Motion Capture</p> <p>STH 265- Introduction to Motion Capture Body Performance for Stage and Screen</p> <p>STH 266-Green Screen Visual Effects for Stage and Screen</p> <p>STH 267-Stereoscopic Cinematography for Stage and Screen</p> <p>STH 268-Film Acting I</p> <p>STH 269-Cinematographic Special Effects for Stage and Screen</p>
Is it necessary to remain competitive with post-secondary institutions?	Yes. HFCC is four years ahead of most colleges in the area of digital imagery for large scale entertainment purposes. If we do not keep advancing, we will fall behind.
Does it provide skills that are transferable to the workplace?	Additional education needed for workplace skills. The VTL offers such classes.
Does it prepare students for transfer to upper-level curriculum?	Yes. Since most HFCC Virtual Theatricality Lab students apply to film schools such as USC, UCLA, NYU, Florida State University, and Columbia College, the skills and techniques acquired by HFCC Virtual Theatricality Lab students are further developed in higher level classes at all transfer schools.

Relevance to Technology Investment Committee Guidelines (continued)

(Address only those that apply.)

Does it keep the course or program current in the related technology?	All techniques taught in VTL classes are used by all Hollywood studios.
NATURE OF PROPOSAL:	Yes. We are currently revising our a Digital Theatre component and are developing the following new classes in addition to the extant nine VTL classes:
Is the proposal a component of curricular revision?	<p>Digital Theatre Stagecraft and Projection Systems</p> <p>History of Special Effects In Stage and Film</p> <p>Green Screen Performance</p> <p>Intelligent Performance Spaces</p> <p>Modeling For Motion Capture</p> <p>Modeling for Digital Scenography</p> <p>Digital Theatre production</p>
Is it the next logical step in the evolution of the course/curriculum?	The ability for student technicians and artists to view their creations under industry standard conditions is the next logical step in the evolution of the VTL curriculum and necessary for student development and learning.
Will it help attract students to HFCC?	Yes. VTL courses offer students instruction in several Motion Capture and special effects cinema that they cannot get at other institutions in Michigan.
Will it support HFCC community outreach/public relations activities?	<p>Since its inception, the VTL has constantly been in the news and public outreach activities. A complete list of accomplishments and activities is available at:</p> <p>http://vtl.hfcc.edu/</p>
Will it support student retention activities at HFCC?	An examination of schedules for VTL students from the last 5 years will reveal that they remain on campus an average of 5 years.
Will it become an integral part of the course, program or curriculum?	Yes.

Resources

Where will the project hardware be installed?	On the Adray Auditorium stage-permanently.	
Who will do the job? <ul style="list-style-type: none"> • List the personnel • List their duties 	Professional installation by Bluewater technicians is covered in the quote for the imaging system.	
Who will use the hardware?	All HFCC students taking HFCC VTL, Theatre, Selected Dance, Music, and Art classes.	
Who will conduct any necessary project-hardware training?	Bluewater technicians conduct training sessions on site.	
Who will handle any spring and summer semester duties related to hardware installation?	George Popovich.	
Do you have commitment from your administration for personnel support? <i>(Be specific, include documentation.)</i>	No new personnel are needed.	
Is release time required to complete this project? If yes, has it been approved at this time by your Associate Dean?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>TIF does not fund release time. If you are requesting release time, it must be approved by the appropriate administrators prior to proposal submission.</i>

Evaluation <i>(How will you know if it worked?)</i>	
How will you demonstrate to the college that this was an effective use of funds? <i>(How will you evaluate the goals listed as Expected Outcomes?)</i>	<p>PUBLIC PERFORMANCES:</p> <ol style="list-style-type: none"> 1) The rear screen projection system will be used as the primary scenic device in a traditional musical or play. The first production will be the children's play <i>Dinosaurus</i>. Examples of other shows that may be appropriate to this application could include the musical <i>Rent</i>, and plays using expressionistic and surrealistic elements such as <i>The Adding Machine</i> and <i>Wings</i>. 2) Motion Capture and/or 3D stereo will be used as a secondary scenic medium in an HFCC Dance, Theater or Music Production. 3) The rear screen projection system will be used to showcase the HFCC Student Film Festival. 4) The rear screen projection system will be used to showcase student work in VTL classes. 5) The rear screen projection system will be used to produce an HFCC Film Festival consisting of commercial feature films. <p>PUBLIC ACCESS:</p> <ol style="list-style-type: none"> 1) Private and public groups renting the Adray Auditorium will have access to the rear projection system. This will enable a premium to be charged for rear projection rental. 2) HFCC Faculty and organizations will have access to the rear screen projection system for special events and meetings.
How will you determine the success or shortcomings of the project?	<ol style="list-style-type: none"> 1) By evaluating student performance in VTL classes using high definition, large-scale images created by the proposed rear projection system. 2) By public reaction to performances and events featuring the rear screen projection system. This could include reviews, awards and invitations to perform and present at artistic and academic functions. 3) By attendance at festivals and events featuring the rear screen projection system. 4) By evaluating enrollment and retention of technical theater students, who have been provided with opportunities to work in an immersive scenic projection environment. 5) By examining the number of times and for what purposes the rear screen projection system is used throughout the year.

Budget (You must also include an itemized budget statement.)	
What do you need to complete this project? <i>(Be specific about equipment, software, and training.)</i>	Hardware and Software Video Distribution Software: WATCHOUT*rack 4U Extreme Quad 1.00 Software License: WATCHOUT 5 License 1.00 \$2,626.67 2 High Definition Projectors: Christie: DLP, HD 1920x1080 2 Standard Lenses 2 Short Lenses 2 Dual SDI/HD-SDI Interface Modules 1 Custom Mobile Enclosure for Projectors 1 Touch panel & Processor 1 WATCH*rack 3U base model 1 Switcher 2 Multi-Rate SDI to DVI and RGB/Component Converters Misc Parts - Cable, Wire & Connectors Screen Labor INSTALLER ENGINEER PROJECT MANAGER Freight Charges
What is the TOTAL COST? <i>(You must attach an itemized cost analysis with this proposal.)</i>	154,025.10
How recent is your quote?	Oct. 2011
Are changes to the college infrastructure necessary to support this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If "yes" provide an explanation from the Directors of Data & Voice and Buildings & Grounds, and from the Administrator in charge of the affected room(s).</i>
What other monetary commitments exist? <i>(Department/Division/ External)</i> <i>Please be specific; include documentation wherever possible.</i>	Office of Arts and Sciences: 10,000.00 Fine Arts and Fitness: \$8,280.00 Theatre: 10,000.00 Commitments from Dr. Gerlica, Martin Anderson, George Popovich
If other sources of funding are not available, why? <ul style="list-style-type: none"> Doesn't have the support? Not viewed as feasible? Not a priority? Other? 	The cost of this project is beyond the resources of traditional HFCC Sponsored Activity funding mechanisms such as club accounts, etc.

Strategic Plan

Include with your application a document that indicates the ways in which your project addresses the goals and objectives of the Henry Ford Community College Strategic Plan. Also, indicate how your project addresses your Division or Department plan. Be as specific as possible.

<p align="center">Budget (You must also include an itemized budget statement.)</p>	
<p>What do you need to complete this project? <i>(Be specific about equipment, software, and training.)</i></p>	<p>Hardware and Software Video Distribution Software: WATCHOUT*rack 4U Extreme Quad 1.00 Software License: WATCHOUT 5 License 1.00 \$2,626.67 2 High Definition Projectors: Christie: DLP, HD 1920x1080 2 Standard Lenses 2 Short Lenses 2 Dual SDI/HD-SDI Interface Modules 1 Custom Mobile Enclosure for Projectors 1 Touch panel & Processor 1 WATCH*rack 3U base model 1 Switcher 2 Multi-Rate SDI to DVI and RGB/Component Converters Misc Parts - Cable, Wire & Connectors Screen Labor INSTALLER ENGINEER PROJECT MANAGER Freight Charges</p>
<p>What is the TOTAL COST? <i>(You must attach an itemized cost analysis with this proposal.)</i></p>	<p>154,025.10</p>
<p>How recent is your quote?</p>	<p>Jan 19, 2012</p>
<p>Are changes to the college infrastructure necessary to support this project?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If "yes" provide an explanation from the Directors of Data & Voice and Buildings & Grounds, and from the Administrator in charge of the affected room(s).</i></p>
<p>What other monetary commitments exist? <i>(Department/Division/ External)</i> <i>Please be specific; include documentation wherever possible.</i></p>	<p>Office of Arts and Sciences: 10,000.00 Fine Arts and Fitness: \$8,280.00 Theatre: 5000.00 Commitments from Dr. Gerlica, Martin Anderson, George Popovich</p>
<p>If other sources of funding are not available, why?</p> <ul style="list-style-type: none"> Doesn't have the support? Not viewed as feasible? Not a priority? Other? 	<p>The cost of this project is beyond the resources of traditional HFCC Sponsored Activity funding mechanisms such as club accounts, etc.</p>



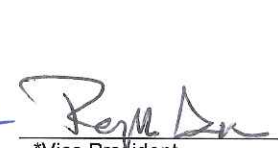
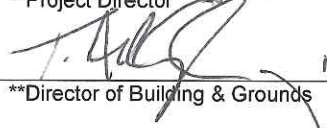

<p align="center">Strategic Plan</p> <p>Include with your application a document that indicates the ways in which your project addresses the goals and objectives of the Henry Ford Community College Strategic Plan. Also, indicate how your project addresses your Division or Department plan. Be as specific as possible.</p>

State how the project addresses the Seven Principles of Good Practice in Undergraduate Education.

(Address only the relevant criteria.)

Supports student-faculty contact	To implement this proposal, students will be in contact with instructors/staff members overseeing the project. A considerable out-of-class time commitment is required of all students and instructors as much of the nature of the work done is research, experimentation, and testing. A portion of contact between students and faculty involves e-mail, e-chat, and video conferencing
Supports cooperation among students	Most of the products resulting from this project are team efforts. (Theatre, Dance, Music presentations).
Supports active learning	The courses for projects associated with this proposal consist of active learning modules. Rather than nests of information to be memorized and fed back to the instructor, the classes are organized as a series of problems to be solved, with much of the information to solve the problem unknown at the beginning of each class. A brief introduction and list of resources is given for each learning module. Students working in groups research and assemble the technological and artistic components for the show, creating a product by direct active engagement with the technology. For the greenscreen video production module, for example, the tasks are divided into videographer and chief engineer, equipment calibration, talent prep and lighting in order to create the final product (a 3D stereoscopic greenscreen video).
Supports prompt feedback	Prompt feedback concerning the effectuation of individual tasks into a cohesive unit is an integral and necessary aspect of the Theatre Arts VTL curriculum. Since digital media are used extensively to gauge progress, project participants are able to evaluate and coordinate efforts immediately. The nature of the creation process provides for immediate, real-time feedback by faculty project directors and student team leaders. Scenes and effects are broken down into small units, or "beats." Each beat is performed, evaluated, adjusted, performed again and adjusted again if necessary.
Supports time on task	Each element of a digital theatrical production must be completed on time as per the production schedule. For VTL projects, this necessitates a time on task approach to produce a satisfactory result that allows each production element to interface with the rest of the production. All energy is focused on accomplishing the preliminary tasks essential to the smooth rehearsal process of a particular sequence, which is a complex assemblage of the preliminary time on task elements.
Supports high expectations	The VTL has continued to be a paradigm for creative technology application in the arts: The Awards, Honors and Achievements of the VTL are numerous. For a complete description: http://vtl.hfcc.edu/
Supports diverse talents and ways of learning	Most HFCC courses either stress verbal-literary learning or mathematical learning styles. However, many creative persons use one or several of the following learning styles: <ol style="list-style-type: none"> 1. Musical 2. Spatial 3. Bodily/Kinesthetic 4. Interpersonal 5. Intrapersonal <p>The technology described herein facilitates the implementation of learning styles 1-5.</p>

SIGNATURES:

	1/13/2012		1/13/12		1/17/12
**Project Director	Date	*Associate Dean/Department Head	Date	*Vice President	Date
	1/13/12		1/12/2012		
**Director of Building & Grounds	Date	**Director of Data & Voice	Date		

* For notification purposes only

** For project feasibility

Revised 10.15.07

ASSUMING NO
INFRASTRUCTURE CHANGES NEEDED.

Non-Instructional Proposals

Complete this section if this is a Non-Instructional Proposal, related to college areas that serve and support student instructional progress. (Non-Instructional areas include Library Services, the Learning Lab, Counseling, and Placement Services.)

Expected Outcomes

(Project Objectives)

What will this project accomplish that you can't accomplish now?

How does the project enrich or support the learning, teaching, or communication technology needs of students? (List specific examples.)

As a result of this project, service to students will be improved through:

SIGNATURES:

**Project Director

Date

*Associate Dean/Department Head

Date

*Vice President

Date

**Director of Building & Grounds

Date

**Director of Data & Voice

Date

* For notification purposes only

** For project feasibility



Henry Ford Community College

Technology Investment Fund Project Funding Request

Executive Summary

DATE OF APPLICATION	PROJECT TYPE
Jan 2012	New <u>Upgrade/Expansion</u>
NAME OF PROJECT DIRECTOR OR PRESENTER	DEPARTMENT/DIVISION
Dr. George Popovich	Fine Arts and Fitness
COST OF PROPOSED PROJECT	NUMBER OF STUDENTS SERVED ANNUALLY
TOTAL COST: 154,025.00 /TIF FUNDS REQUESTED:130,697.10	250-300

SUMMARY

This request is for a high-definition 3D stereo projection system to fit the width and height of the Adray Stage for HFCC's Virtual Theatricality Lab. (VTL; <http://vtl.hfcc.edu/>). This is a permanent installation and will become part of the stage machinery/hardware of the Adray Stage. The granting of the TIF request will enable the VTL to resume productions and provide a visualization laboratory for the students of the present line-up of nine VTL (Virtual Theatricality Lab) classes.

The 3D stereo projectors purchased in 2000 have burned out LCD panels and have been declared "end of useful life" by the manufacturer.

(Attach additional sheets if needed.)

TIF GRANT PROPOSAL: THE VIRTUAL THEATRICALITY LAB

The ways in which this project addresses the goals and objectives of the Henry Ford Community College Strategic Plan.

Strategic Goal(s) and Objectives(s)	The ways in which this project addresses the goals and objectives of the Henry Ford Community College Strategic Plan.
<p>Strategic Goal 1: Expand access to college programs to provide opportunity and increase participation in higher education.</p> <p>Objective e: Increase marketing and communication of HFCC programs and services.</p>	<p>The VTL is a high-profile program. Newspaper and magazine articles are constantly written about the VTL and it has won many educational and artistic awards. For more information on VTL publicity see: http://vtl.hfcc.edu/</p>
<p>Strategic Goal 2: Promote excellence in teaching and learning to meet individual and societal goals.</p> <p>Objective a: Develop new and revise existing programs and curricula to meet the expectations of students, transfer, institutions, and the workforce.</p> <p>Objective c: Support excellence in teaching and learning by expanding professional development opportunities for all employees.</p>	<p>The VTL curriculum is focused on technology students encounter in their daily lives. The VTL curriculum is designed to complement new media programs emerging in 4-year schools, transfer institutions such as The University of Michigan Ann Arbor. The VTL also provides students skills to obtain jobs in the new media entertainment industry, while at the same time producing artistic products for the community.</p> <p>The VTL expands the knowledge base of all involved in the areas of animation, video, and motion capture by providing access to technology only available in a few schools in the United States</p> <p>The VTL allows all faculty and staff involved to conduct original, trend-setting research.</p> <p>The VTL allows all faculty and staff involved to professionally network due to the awards, media coverage, and professional interest generated by the VTL's work.</p>
<p>Objective d: Create processes that encourage faculty to develop and share innovative approaches that enhance teaching and learning.</p>	<p>The VTL website (http://vtl.hfcc.edu/) is an online resource for researchers, educators, and artists interested in digital performance. We have placed all of our documentation online, including schematic diagrams of our virtual performance systems. We willingly share our techniques and "secrets" and encourage replication. We have had inquiries and visitors from all over the world. The University of Michigan in Ann Arbor is replicating our lab. (http://um3d.dc.umich.edu/home.html)</p>

Objective f: Develop effective communications to increase student awareness of curricular and co-curricular opportunities in order to enhance their college experience.	The high-profile productions of the VTL contribute increased student awareness of curricular and co-curricular opportunities because of the widespread positive publicity generated by the VTL.
Objective g: Recognize and honor exemplary teaching and student excellence.	For documentation of the VTL's accomplishments, see: http://vtl.hfcc.edu/
Strategic Goal 3: Promote diversity and promote international awareness to prepare students for success in a rapidly changing, diverse and global environment.	
Objective e: Integrate diversity and global awareness into the curriculum and promote opportunities for cultural exchange.	The language and art of the cinema speaks to all cultures and all peoples. Among participants in global exchange with the VTL include Dr. Guangyao Bai, Vice President of Chinese National Theater Arts University, Ken Purcell, Music Professor, University of Western Australia, and Avon Harpley from the University of London in the UK.
Strategic Goal 4: Develop and manage the College's resources to enhance the fiscal health and operations of the college.	
Objective c: Ensure that the College's physical facilities, equipment, and the technological infrastructure support fulfillment of the college's mission.	VTL equipment produced the first annual HFCC student film festival in Dec, 2007 featuring HFCC student films. The Film Festival is sponsored by the HFCC Film Club. The VTL courses are being organized to offer a Digital Performance Associate of Arts Degree.
Strategic Goal 5: Develop new and strengthen collaborative relationships that benefit the college and its constituents.	
Objective c: Create and expand community and international partnerships and collaborations with business, governmental, non-profit, and educational institutions.	The VTL's most recent professional collaboration is with the Screen Actors Guild. The VTL has offered presentations and workshops for guild members. (Sept. 2009; Feb., 2010; March 2011).
Objective d: Expand HFCC constituent representation in community, professional, and other organizations.	The VTL was invited to join a consortium sponsored by the Michigan Film Office. (March, 2010).
Objective e: Increase collaboration with K-12 and four-year colleges and universities in order to create a seamless educational pathway.	Steven Hesse, the systems administrator for the University of Michigan Ann Arbor 3D and Mo Cap lab and his technical assistant enrolled in HFCC's Motion Capture certificate program and completed the Motion Capture Certificate. The University of Michigan is replicating our program. (http://um3d.dc.umich.edu/home.html)
Strategic Goal 6: Enhance student-support services to assist students in meeting their educational goals.	
Objective e: Develop campus spaces that will facilitate student	This grant proposes to enhance the VTL's present capabilities. This will dramatically

<p>learning and community access.</p>	<p>increase the VTL's teaching functions and enhance the campus space of the Adray Auditorium.</p>
<p>Strategic Goal 7: Provide academic programs and specialized training opportunities to contribute to the economic development of the region.</p> <p>Objective c: Create and improve partnerships with private and public entities to establish HFCC as a premier educational resource for economic growth.</p>	<p>HFCC has established professional relationships with Christopher Dozier, professional CGI artist, The Michigan Film Office and The Screen Actors Guild.</p>

TIF GRANT PROPOSAL: THE VIRTUAL THEATRICALITY LAB
The ways in which this project addresses the initiatives of the Fine Arts and Fitness Division

Initiatives: The following relevant Departmental Initiatives have been incorporated into The College Operational Plan for 2012-2113:	The ways in which this project addresses the initiatives of the Fine Arts and Fitness Division
Inculcate and disseminate the culture, skills, and knowledge, necessary for the creation of 3d stereoscopic content in video, television, art, and VTL classes.	This initiative includes a majority of the disciplines within Fine Arts and Fitness.
Strengthen TV, Video, Film component of HFCC Telecommunication Department within HFCC Fine Arts and Fitness Division.	The VTL combines skills from cinema, graphics, art, dance, computer programming, music, and theater. A review of VTL students will reveal that a majority of them are either Art Students or TCM students.
Expand course offerings to create degree program, transfer plans, and articulation agreements.	As described herein, this project will enable the VTL to create new classes.

ITEMIZED COST ANALYSIS: VTL TIF GRANT PROJECT PROPOSAL, 2012

QUANTITY		TOTAL	NOTES
	<u>ITEM: PROJECTORS</u>		Includes short throw lens so system can be used for lectures, movies, in a non 3D mode.
2	Projectors	28,736.00	
2	Standard Lens	4,624.00	
2	Short Throw Lens	10,664.00	
	<u>ITEM: SCREEN</u>		This is a rear projection screen. It will allow for productions with the audience setting on stage or in the auditorium.
1	ATM3M473CFS10 Image Size: 14ft-6" x 36ft-8" (39ft-5" diag.) Aspect Ratio: 2.53 : 1 Material: Filmscreen 100 -Rear Projection Seamless Screen Overall Dimension: 15ft x 37ft-2" Frame Overall Dimension: 15ft-10" x 38ft Finish: VeLux Mounting: Aperture.	29,292.48	
	<u>ITEM: MOUNTING</u>		
1	Custom Mobile Enclosure for Projectors	\$866.67	
1	WATCH*rack 3U base model	\$3,733.33	
1	Misc Parts - Cable, Wire & Connectors	\$1,000.00	
	<u>ITEM: DATA DELIVERY SYSTEM</u>		Compatible with Dimmer MIDI system in Adray.
	WATCH*rack 4U Extreme Quad	\$8,620.00	
	WATCHOUT 5 License	\$2,626.67	
2	103-132107-01 Dual SDI/HD-SDI Interface Module	\$7,501.34	
	AMX EXPeriance Kit - Touch panel & Processor	\$8,666.67	
	Switcher	\$4,375.00	
	Multi-Rate SDI to DVI and RGB/Component Converter	\$2,653.34	
	<u>ITEM: LABOR</u>		Installers are local.
	INSTALLER	\$5,850.00	
	ENGINEER	\$1,700.00	
	PROJECT MANAGER	\$1,360.00	
	<u>ITEM: FREIGHT</u>	\$1,755.60	
	<u>ITEM: FINAL ANIMATION, MUSIC AND DOLBY</u>	30,000.00	
	GRAND TOTAL	154,025.10	
	OUTSIDE COMMITMENTS	-23328.00	
	TIF FUNDS REQUESTED:	130,697.10	



QUOTATION 11117

24050 Northwestern Hwy
Southfield, MI 48075
Phone: 248-356-4399
Fax: 248-351-2227

BILL TO:		JOB LOCATION:
COMPANY	Henry Ford Community College	COMPANY Purchasing Department
ADDRESS	5101 Evergreen Road	ADDRESS 5101 Evergreen Road
		EXPIRY DATE February 18,2012
		SALES REP. Mark Brown
	Dearborn, MI 48128	DEARBORN, MI 48128
CONTACT	Fred Steiner	PHONE. EXT
PHONE	(313)845-6420	EMAIL.
		PHONE

TITLE:
HFCC Theater Dept. - Rear Projection 3D system - Dearborn REV B

SCOPE OF WORK:

PART NUMBER	PART DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE
	WATCH*rack 4U Extreme Quad	1.00	\$8,620.00	\$8,620.00
	WATCHOUT 5 License	1.00	\$2,626.67	\$2,626.67
103-029102-01	DHD800 1-DLP, HD 1920x1080 8000lm, 43.4lbs -- no lens *	2.00	\$14,368.00	\$28,736.00
103-120104-02	Lens PROJ 1.8-2.8:1 Standard	2.00	\$2,312.00	\$4,624.00
103-118101-02	Lens PROJ 1.2-1.8:1 Short	2.00	\$5,332.00	\$10,664.00
103-132107-01	Dual SDI/HD-SDI Interface Module, DHD800	2.00	\$3,750.67	\$7,501.34
ATM3MFT456CF	Stewart Custom Screen	1.00	\$29,292.48	\$29,292.48
	CUSTOM CONFIGURATION			
	AT3 Series Frame, Masked			
	ATM3M FULL TRUSS			
	Screen Image Size: 158" x 428" (456" diag) -Aspect Ratio: 2.75:1			
	Screen Material: Filmscreen 150, Rear Projection Seamless			
	Material OD: 164" x 434"			
	Frame Type: ATM3M with 14" All Around Truss (Truss along perimeter with frame)ATM3M Frame OD: 174" x 444"			
	Truss Frame OD: 186" x 456"			
	Finish: Velux			
	Mounting: Dead Hung using Eyebolts			
	Custom Mobile Enclosure for Projectors	1.00	\$866.67	\$866.67
	AMX EXPeriance Kit - Touch panel & Processor	1.00	\$8,666.67	\$8,666.67
	WATCH*rack 3U base model	1.00	\$3,733.33	\$3,733.33
	Switcher	1.00	\$4,375.00	\$4,375.00
60-1033-01	DVC 501 SD	2.00	\$1,326.67	\$2,653.34
	Multi-Rate SDI to DVI and RGB/Component Converter			
	Misc Parts - Cable, Wire & Connectors	1.00	\$1,000.00	\$1,000.00

Labor



QUOTATION 11117

24050 Northwestern Hwy
Southfield, MI 48075
Phone: 248-356-4399
Fax: 248-351-2227

BILL TO:		JOB LOCATION:
COMPANY Henry Ford Community College	COMPANY Purchasing Department	DATE January 19,2012
ADDRESS 5101 Evergreen Road	ADDRESS 5101 Evergreen Road	EXPIRY DATE February 18,2012
		SALES REP. Mark Brown
Dearborn, MI 48128	DEARBORN, MI 48128	PHONE. EXT
CONTACT Fred Steiner	CONTACT Fred Steiner	EMAIL.
PHONE (313)845-6420	PHONE	

TITLE:
HFCC Theater Dept. - Rear Projection 3D system - Dearborn REV B

SCOPE OF WORK:

PART NUMBER	PART DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE
	SFLD - INSTALLER	90.00	\$65.00	\$5,850.00
	SFLD - ENGINEER	20.00	\$85.00	\$1,700.00
	SFLD - PROJECT MANAGER	16.00	\$85.00	\$1,360.00
	Freight Charges	1.00	\$1,755.60	\$1,755.60

SUBTOTAL:	\$124,025.10
SALES TAX:	\$0.00
TOTAL:	\$124,025.10

IF YOU WISH TO ACCEPT THIS PROPOSAL, PLEASE SIGN AND RETURN

Buyer: _____
(Print Name)

Buyer
Signature: _____

Date: _____