
Fiscal Year **2016**
Capital Request

Resource
Allocation
Management
Plan

Richland Community College 

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COMMUNITY COLLEGE CONTACT FOR FURTHER INFORMATION

Occasionally it is necessary to contact the individual(s) responsible for completing the Capital RAMP tables in order to reconcile discrepancies or to obtain further information to clarify requested project(s). Please list the person responsible for the Capital RAMP submission in the space provided below who should be contacted for follow up inquiries. The individual below will be the person ICCB or IBHE contacts to answer questions concerning the Capital RAMP requests.

Community College District Richland Community College

Budget Year Request 2016

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**RICHLAND COMMUNITY COLLEGE
 RESOURCE ALLOCATION MANAGEMENT PLAN
 FY 2016
 June 3, 2014
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Introduction

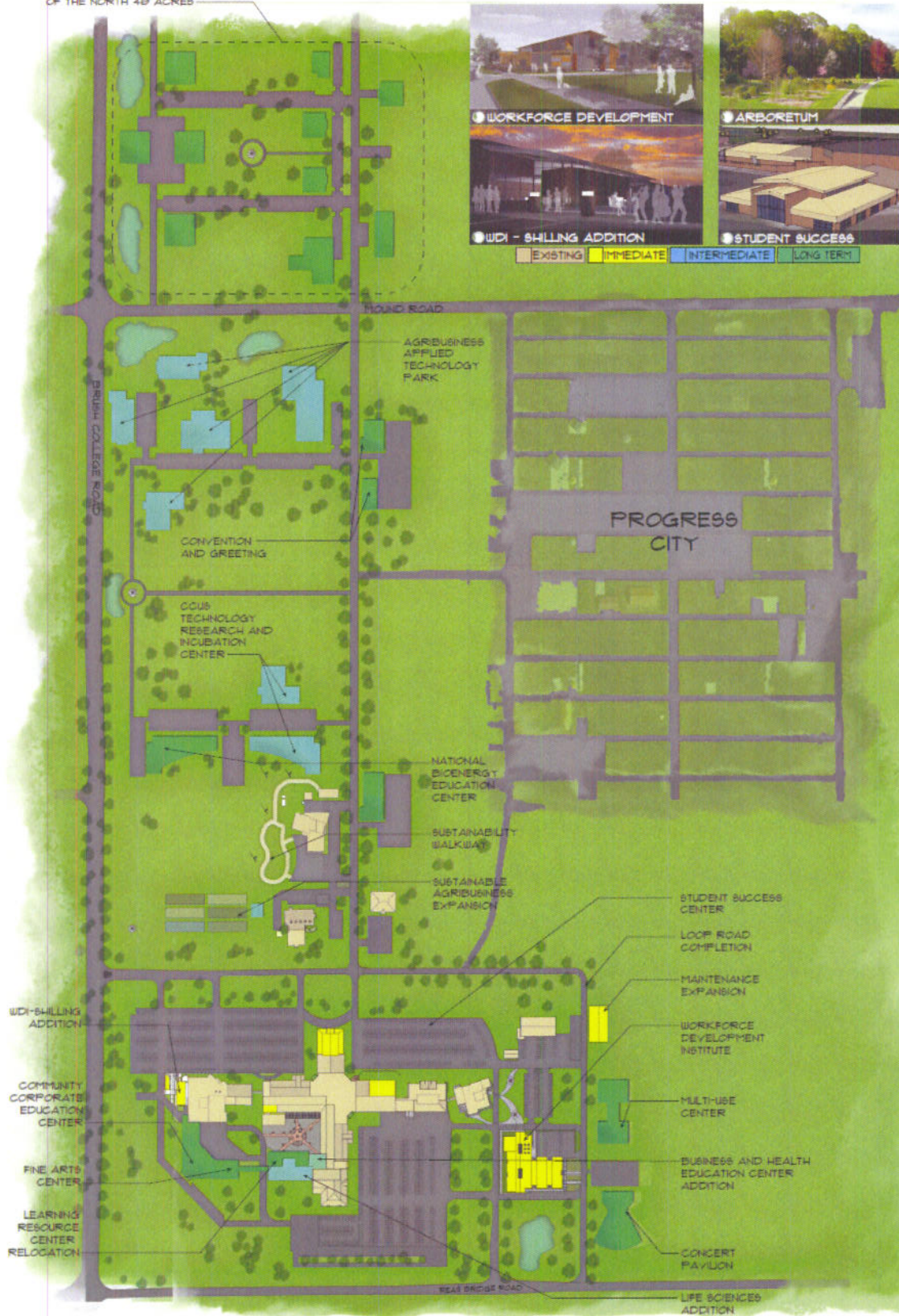
The Fiscal Year 2016 RAMP Document for Richland Community College embraces the Strategic Plan and the Colleges 2013 Facilities Master Plan. Adopted by the Board of Trustees, these two plans are the guiding vision for the College's capital budget request. The College continues to adapt its focus as it serves the community and its businesses. The FY 2016 RAMP request further supports the philosophy of reaching out to the community and serving the College's constituents through education and training.

The FY 2016 RAMP includes previous requested projects. Projects described in this document are still priorities for Richland and continue as needs of the College. Serving students is at the heart of the College's mission, and the projects requested reflect this desire. The projects further demonstrate Richland's need to provide quality education and training in new and emerging technologies that will support workforce initiatives. A substantial amount of work has been undertaken with the planning and usage for the Business Education Center. The need for efficient and effective educational space continues. The FY 2016 RAMP request addresses the priority educational improvements.

A Facilities Master Plan was adopted by the Board of Trustees in March of 2013. With the assistance of the College's architects, focus group sessions were conducted that included the Board of Trustees, faculty, staff, students, and community members. The groups generated the capital demands that will enable Richland to build or renovate space to meet the cutting edge workforce needs of the community. The College identified the future academic, workforce training, and community needs facing Richland and incorporated those ideas into a comprehensive Plan. The Facilities Master Plan will serve as the reference to guide the College's facilities needs for improving space as well as making the College a destination for future economic development.

The Facilities Master Plan is a snapshot of the factors facing Richland based on environmental influences and perceptions that shape the College's future. Included in the Plan are additional enterprises such as Progress City, the Agribusiness Highway and other economic and academic ventures. Other features include projects that address repair and renovation and life safety modifications. Each of the projects identified in the RAMP document relates to an identified current or future space need or capital facilities operational need.

COMMERCIAL DEVELOPMENT
OF THE NORTH 40 ACRES



Fiscal Year 2016
Resource Allocation Management Plan
Capital Funding Request

Global Agribusiness Center/National Bioenergy Education Center

Programmatic Justification

Introduction

This project request has not been modified from earlier requests. Since the inception of this project, Richland Community College's strategic direction has been to support local industry through growth in the agribusiness and food processing workforce. Creating a facility that will further enhance the College's ability to provide a trained world-class workforce in the agribusiness industry is paramount to the economic viability of the region. This strategic direction has recently been accelerated and defined more clearly as the need to provide a well-educated workforce in the "green" jobs industry. Through a grant opportunity provided by the Department of Energy, Richland has partnered with Archer Daniels Midland (ADM), Illinois Geological Survey, and Schlumberger, to create a national center for carbon sequestration capture technology. This partnership is providing the stimuli for developing alternative clean energy instructional opportunities. Additionally, the impetus for developing a center for sustainable agriculture and horticulture programs is being expanded. Accordingly, a shift has also occurred in the agribusiness industry, one that now looks at providing jobs in the alternative fuels and bioenergy. Emerging businesses in the region are providing new sources of energy to the local economy. While the main focus is on food and fiber production for products such as ethanol and biodiesel, Central Illinois is now supplying components to the wind energy industry, clean coal technology, and carbon sequestration, and even resurgence in the nuclear power is occurring. Richland is poised to provide a trained workforce to each of these industries.

Because of these changes, Richland's facility needs are also changing as the College becomes a primary community link in the economic development chain for agribusiness, energy, and workforce development. Broad implications are being realized as Richland seeks to meet the needs of its community. With the added emphasis gained from becoming the host for the world's largest agribusiness trade show and the construction of the National Sequestration Education Center, new and exciting facilities demands have emerged and are supported by the further development of energy technology. While prior plans focused primarily on providing instructional and student services space, this updated request focuses on utilizing the College's total 160 acres to enhance workforce training and economic development.

Economic growth in the region will result from the shift from manufacturing to agrobiotechnology and energy. Richland is in a key position to lead this growth through information sharing, training, and developing partnerships in these industries. Richland is the primary entity to bring together private business, education, and government, which in turn will spur new business development. As partners, these entities will engage in activities such as development of an applied research and development park, where practical demonstrations of best-practices in agribusiness and clean energy technology can be demonstrated. This project will greatly assist the College in furthering these activities, changing the economics of the region, and supporting workforce education.

As a result of the economic development opportunities described above, this project has evolved to meet the market needs of the region. The Facilities Master Plan adopted by the College in 2013 proposes that this building will be part of several individual facilities in an industrial/research park setting. This will be the initial phase of the Agribusiness Corridor described in the Master Plan and further supported by the growth of clean energy programs being conducted by Richland. This project has experienced a metamorphosis from its initial concept. As plans have been developed and the College has refined its strategic direction, a greater focus on bioenergy has emerged. This project reflects the College's program development toward various aspects in the bioenergy and alternative energy fields. In accordance with that, the facility proposed has been modified to incorporate more laboratory space and fewer classrooms. Cost parameters have been maintained and the initial intent for developing the agribusiness programs are clarified through the energy programs being developed.

The redefined focus for Richland Community College supports training and education for green collar jobs through the construction of a National Bioenergy Education Facility that will include laboratories, classrooms, and support space needed to provide educational opportunities and workforce training for the bioenergy industry.

The most recent U.S. Energy Bill, signed into law in August 2005, created a national Renewable Fuels Standard (RFS). This watershed legislation established a baseline for renewable fuel use, beginning with 4 billion gallons per year in 2006 and expanding to 7.5 billion gallons by 2012. The vast majority of the renewable fuel used will be ethanol, resulting in a doubling of the domestic ethanol industry in the next 6 years. This growth in the ethanol and biodiesel industry is creating a vast need for trained technicians to operate these high-tech production facilities. The need for qualified employees with well-paying production jobs does not end with new production facilities as existing facilities will also face the continual need for trained employees.

Growth in the bioenergy industry creates an intensified need for trained industry professionals, engineers, operations managers, and production technicians to operate high tech bioenergy facilities. The need for highly qualified employees comes from both new and existing production facilities. Companies in the Decatur/Central Illinois region have demonstrated a significant commitment to ensuring global competitiveness via access to skilled workers with the ability and flexibility to work with new technologies.

Richland will meet the need of the bioenergy industry with an expansion for sustainable agriculture and energy into a new facility. This project will establish Richland Community College as a leader in workforce development for bioenergy initiatives.

This RAMP application follows the guidelines provided by the Illinois Community College Board. The programmatic justification addresses the basic questions noted by the ICCB for the recommended project and includes the necessary application forms. Supporting documentation includes the revised Master Plan and applicable date.

While this process allows for a formal application of State funding, the project is one that will benefit the many diverse students served by Richland Community College and the jobs creation expected for the region.

Decatur is the agribusiness capital of the world, home to Archer Daniels Midland and Tate & Lyle North America, leaders in the agribusiness industry. Many local businesses provide ancillary services to each of these companies as well as to other multi-national companies. Agriculture drives the local economy. From the farmer supplying the seed to the giant grain processors, agribusiness encompasses much of what the community is about. Richland must seek to provide all areas of this industry with a trained workforce capable of meeting its demands. The College also must meet the educational needs of the community by providing the necessary resources for training and developing individuals with the skills required to serve this industry. Through public-private partnerships, economic development will be greatly enhanced in the area.

With Richland's location in the epicenter of this industry, it has a unique opportunity to provide resources to the many and varied aspects within the industry. Currently, the College provides courses that lead individuals to employment with agribusiness companies; however, for Decatur and Central Illinois to continue to be successful, Richland can and must support a broader view. Richland must not only train individuals to work within the industry but also provide resources to link research to entrepreneurs and businesses. The College has the ability to serve the business community by developing demonstrations for the use of technology to which many do not have access and to stir the interest in local youth to understand this industry and the future it holds for each individual. Richland is in a position to enhance the economic development of the region, help local industry, and better the lives of constituents through a multi-faceted approach supporting the agribusiness industry specifically toward bioenergy.

One key element for Richland to meet the need of the agribusiness industry is to create an entity that specifically serves the regional industry.

What will this project accomplish?

This project will create a unique facility that will allow Richland Community College to serve its mission of supporting the District through a broad-based approach. The education and training that will be offered will be centralized and draw from many resources. The expertise that is available is great, and by providing a central and neutral location this expertise will be utilized by many. Sharing of resources is key to the central success of this project.

The project will allow other training and educational providers to locate in an agribusiness park location. Other providers, such as State and local agencies, will be able to offer services to a greater number of constituents. This project would expand on an existing model with an established partnership with the Macon County Soil and Water Conservation District. The Conservation District is housed in a facility on Richland property that includes the local USDA office.

Attracting traditional college students into the agribusiness field is a difficult task. The partnership model will demonstrate to students that agribusiness includes high-tech careers. This project exemplifies the bright future that is possible in this industry. Providing a facility that can be used to educate and promote programs in agribusiness to young students will broaden the chances that those students will seek a future in the industry.

Technology is driving many changes in the industry. The technology and the accompanying information derived from the technology need to be placed in the hands of those individuals who can transform the information into usable market data. Richland will host a site that can facilitate these changes.

How will the project meet instructional objectives of the College?

Richland Community College, through its mission, is required to serve its community. Through this project the College will strengthen its links with other educational providers, allowing for greater programs and services to the community. Through the sharing of resources, the College will be able to offer a broader spectrum of training and education more cost effectively.

Agribusiness is the industrial focus of the District. Richland must seek ways to provide a well-trained workforce with the specific skills and abilities needed for this industry. The facility reflects the multifaceted approach to serving the industry. Richland will attract new students to careers that support and promote technology specific to agribusiness. Dissemination of current and important information will be facilitated through the clearinghouse. Drawing upon the expertise of the industry and providing demonstration of that expertise will allow the College to keep current workers trained so they will remain globally competitive.

How will the new and remodeled space better serve instructional/programmatic areas as compared to existing facilities?

Educational partners are not located in close proximity, and constituents must seek training at various locations in the region. Student awareness of career opportunities is limited to the education received in secondary education systems or, in some cases, work situations. This project will enhance awareness by providing opportunities for hands-on experiential learning, directed at specific technology.

Expansion of training in agribusiness is not possible without new space. Demonstration areas, classroom space, and resource space cannot be programmed into current campus facilities. Additionally, due to the nature of those who will be served by this facility, locating the building near but not connected to the main campus facilities will better serve business and industry.

Assessment of the current facilities:

At the present time, no existing facilities have been designated specifically for the programs to be housed in this facility. Aggregating the resources of the various educational and business partners will provide an enhanced program for which space on campus does not exist currently.

Summary

Creating jobs in the green industry that make the United States more energy-independent will be the future economic basis for the region. Strategically, bringing together educational resources and expanding programming focused on the bioenergy industry drive the need for the College to construct a facility unique to support training in the alternative energy field. This will be accomplished through coordination of the various entities providing the educational services, developing demonstration areas for new technology, and highlighting the career opportunities available.

Project Scope

This project includes construction of a free-standing multi-use facility that will be located on College property north of the existing main campus facility. The structure will be a single-story steel and masonry building constructed similarly to the main campus building. The building will require all utilities to be extended from the main building or from other demarcation points. This building will require construction of a parking lot for approximately 75 vehicles. Infrastructure providing the necessary utilities and roadway capacity is essential for the development of additional facilities. Other site work includes grading the area for proper drainage and the construction of a retention area, which will be done in accordance with current sustainable practices.

General Building Considerations

All new facilities will be constructed to meet LEED criteria as well as ADA standards. Specific enhancements that make the facility more energy efficient and keep the building's carbon footprint small will be incorporated.

The facility will include new construction technologies and materials as an effort to support a sustainable building. Minimal guidelines established by the State will be set as a threshold for the construction. As funding and technology allow, additional "green building" initiatives will be incorporated into the design.

The new building will maintain the current construction type and standards. All materials for construction will comply with all necessary codes and current standards for the materials used and cost design.

Security video cameras will be installed in the new construction as appropriate and will be integrated into the current campus security system. External security lighting will be included to the extent that continuity of the existing system is maintained.

Equipment Needs

Included in this project application are costs associated with the purchase of fixed equipment including built-in casework, office furnishings, computer stations, waiting room seating, conference room tables and seating, multi-media audio-visual equipment, sound equipment, and room darkening window treatments.

Additional equipment to support the academic processes for bioenergy and alternative clean energy laboratories will need to be addressed through the acquisition of current technology.

Cost Estimates & Budget Considerations

Cost estimates were developed utilizing current building cost information as well as the Capital Development Board's Cost Guideline by Space Type. The total building costs are summarized in Table 1 of the Capital Budget Request Form.

The facility will be built to meet LEED criteria as well as ADA standards as State requirements for sustainable building construction.

Funding Considerations

Funding for this project will be available from several sources. State support at the 75% level is requested. Local contributions for Richland Community College's share will be a mixture of available fund balance monies and debt funding.

A proposed breakdown of the funding is shown in the Board of Trustees Matching Funds Commitment form.

Proposed Time Schedule:

Appropriation of Funds	September 2015
Release of Funds	August 2016
Completion of Design	May 2016
Bid Date	June 2016
Award of Contracts	July 2016
Construction Start	August 2016
Beneficial Occupancy	August 2017

**TABLE 2
FY 2016 SUMMARY OF REQUESTED SPACE AND/OR ACREAGE**

Space Type	FICM Codes	PART A NET ASSIGNABLE SQUARE FOOTAGE SUMMARY			PART B ACREAGE SUMMARY (Land Acquisition)		Number of Acres Requested in Budget Year
		REQUEST FOR NEW FACILITIES	REDISTRIBUTION OF NASF SPACE		## Landscaped Ground	## Physical Education and Athletic Fields	
		Net Assignable Square Feet (NASF)	Space Prior to Remodeling	Space After Remodeling	## Buildings and Attached Structures	## Experimental Plots	
Classrooms	110 thru 115	3,400					
Laboratory	210 thru 255	12,700					
Office	310 thru 355	1,120					
Study	410 thru 455	750					
Special Use	510 thru 590	2,200					
General Use: Assembly and Exhibition Other General Use	610 thru 625 630 thru 685	900					
Support Facilities	710 thru 765	500					
Health Care	810 thru 895						
Unclassified							
TOTAL NASF #		21,570					
TOTAL GSF* #		34,484					

*Gross Square Feet

COMPLETE THE APPLICABLE SECTION--ONE SHEET FOR EACH PROJECT REQUESTED

**TABLE 3
FY 2016 BUILDING BUDGET ESTIMATION FORM**

District/College Richland Community College
 Location Decatur, IL
 Project Name Global Agribusiness Center/National Bioenergy Education Center

(cost column rounded to the nearest hundred)

Space Type	Multiplier		GSF	\$/GSF	Cost
	NASF	Factor			
Classrooms	3,400	1.50	5,100	\$242.99	\$1,239.2
Labs	12,700	1.65	20,955	\$264.48	\$5,542.3
Office	1,120	1.70	1,904	\$261.26	\$497.4
Study	750	1.70	1,275	\$250.18	\$319.0
Special Use	500	1.80	900	\$258.19	\$232.4
General Purpose	900	1.90	1,710	\$256.23	\$438.2
Support	2,200	1.20	2,640	\$223.99	\$591.3
1. Base Total	21,570		34,484		\$8,859.8
2. Added Costs (sum of added cost components identified separately below)					
LEED design cost up to 6% of line 1					\$531.6
Green Building Design/LEED Certification Level _____ GOLD					
Other added costs:					
3. Base Cost	21,570		34,484		\$9,391.4
4. Escalation (estimate of cost increase from the time of appropriation to the bid date					
--insert variables to calculate--assumes appropriation received at the bid date					
Expected Bid Date: 7/1/2013	Number of Months to Bid Date:		5.0		
Annual Percentage (Allowable per annum inflation or less)			2.70%		
(the monthly rate will be calculated and multiplied by the months to bid)					
5. Escalated Building Budget (Line 3 plus Line 4)					\$9,497.0
6. Escalated Building Budget					\$10,446.7
Plus 10% Contingent (Line 5 multiplied by 1.10)					
7. Adds:					
a. A/E Fees _____ 7.50%					\$783.5
b. On-Site Observation	Number of Month	\$5.0	Days per Week	\$2.0	\$8.0
c. Reimbursable Expenses				0.010%	\$0.9
d. Art in Architecture	one-half of one percent		(Multiply Line 6 by .005)		\$52.2
e. Other Adds _____ CDB 3% Admin Fee					\$313.4
f. Sub-total Adds (Lines 7a through 7e)					\$1,158.1
8. Total Building Budget (Line 6 plus Line 7f)					\$11,604.8

OTHER:
 Estimate of Annual State Supported Operations and Maintenance Expense

Source of Cost Estimate: CDB & Recent Construction
 Date of Cost Estimate: 5/19/2014

TABLE 4
FY 2015 MOVEABLE EQUIPMENT LIST

District/College: Richland Community College
Project Name: Global Agribusiness Center/National Bioenergy Education Center

(cost column rounded to the nearest dollar--please round the grand total equipment cost to the nearest hundred when you transfer to table 1)

Programmatic Unit	Room Use Classification	Name of Equipment	Number of Units	Cost per Unit	Estimated Total Cost
Bio Fuels	Classroom	Desks and Chairs	5	14,745	\$73,724
		Instructor's Station	5	2,722	\$13,611
		LCD Projectors	5	8,620	\$43,100
		Smart Classroom Package	5	27,221	\$136,106
		Storage Units	15	1,134	\$17,013
Office	Standard Office Furniture	Computer	3	6,805	\$20,416
		Copier/fax	1	17,694	\$17,694
	Laboratory	Computers	25	4,981	\$124,537
		Workstations	30	681	\$20,416
		Storage units	6	1,134	\$6,805
		Instructor's Station	2	1,134	\$2,268
		Workstations	5	5,671	\$28,355
		Benches	4	1,815	\$7,259
		Science Lab	1	34,027	\$34,027
		Desk & Chairs	35	340	\$11,909
Demonstration Station	2	3,403	\$6,805		
Mechanical Skills	Laboratory	Desks and Chairs	2	14,745	\$29,490
		Instructor's Station	2	2,722	\$5,444
		LCD Projectors	2	8,620	\$17,240
		Smart Classroom Package	1	27,221	\$27,221
		Storage Units	15	907	\$13,611
	Office Space	Food Storage Equipment	1	7,940	\$7,940
		Computers	2	4,083	\$8,166
		Workstations	2	681	\$1,361
		Storage units	6	1,134	\$6,805
		Storage Racks	15	3,403	\$51,040
Shared Workshop	\$3,400.0	Tables	35	1,248	\$43,667
		Chairs	65	499	\$32,439
	Office Space	Electronic Media Station	1	27,221	\$27,221
		Demonstration Table	2	1,815	\$3,630
		Mobile Coat Rack	5	1,701	\$8,507
		Reception Desk	1	7,940	\$7,940
		Computers	6	4,083	\$24,499
		Workstations	6	681	\$4,083
		Storage units	12	1,134	\$13,611
		\$500.0	Seminar Tables	40	1,021
Chairs	65	499	\$32,439		
Electronic Media Station	1	27,221	\$27,221		
Testing	Lab	Seminar Tables	12	1,021	\$12,250
		Chairs	25	499	\$12,476
Print Media	Storage Racks	Media Reader - Digital	2	4,083	\$8,166
		Media Reader	1	4,764	\$4,764
		Tables	14	1,021	\$14,291
		Tables	35	851	\$29,773
General storage	Classroom	Chairs	65	295	\$19,168
		Electronic Media Station	1	27,221	\$27,221
		Demonstration Table	2	1,815	\$3,630
Grand Total Equipment Costs (this number should be included on the equipment line of table 1)					\$1,156,052

COMPLETE ONE SHEET FOR EACH PROJECT REQUESTING MOVEABLE EQUIPMENT

TABLE 5

Supplemental Supporting Data
Global Agribusiness Center/National Bioenergy Education Center

Site Improvements (total on Table 1)

Parking lot for building			
75 spaces	75	\$3,168.2	\$237,615
Professional Fees			

Utilities

Run sewer, water, electricity, telecommunication to new structure (create new infrastructure)	Ft.	\$1,533.0	cost per foot \$153,300
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Construction of Sidewalks

(Cost included in Table 1 Buildings...)	construction		
<u>(From Architect's estimate)</u>			
Sidewalks	\$9.6	\$3,000.0	\$28,820
Landscaping	L/S		\$122,640
Roadways	\$10.7	\$13,500.0	\$143,903

Planning	A&E Fees
Total Cost	

Totals (To be included in Table 1)

Utilities	\$153.3
Site Improvements	\$237.6

***Fiscal Year 2016
Resource Allocation Management Plan
Capital Funding Request***

Community Education Center

Programmatic Justification

Introduction

Since the initial request for Capital Funding for this project, Richland Community College adopted a new Facilities Master Plan based on the facility needs identified in 2013. Supporting the Community through improved and relevant facilities will allow Richland to address its changing demographics of the local community.

The College recognizes its role in the community and has leased land to a governmental entity that is linked to Richland's programs. The leased land has created a partnership that will provide Richland's students with access to greater resources. Another major intention reflected in the Master Plan is to expand Richland's offerings and partnerships into the community. Finally, the new master plan begins to reshape the campus facilities by recognizing the need for better access to the most-needed College services. With these factors in mind, a Facilities Master Plan provides direction for Richland's future expansion, enhancement, and development. Projects resulting from the master plan adoption are being requested for state assistance.

Sharing limited resources with other community partners that have a similar mission makes good fiscal logic. Providing space that supports the College's efforts to serve all of the local constituents is imperative at this time. This project will provide an expansion of the Shilling Community Education Center and adds conference space. A high demand for meeting space that supports collaboration among community entities continues. Richland is the hub of this type of community engagement.

Decatur is a community that has a significant population of citizens who have not attained a high school degree or equivalent. In a community that has a workforce population of approximately 56,000 individuals; it also has a population of over 19,000 individuals over 16 years old who do not have a high school diploma. Richland must increase its efforts to educate this population so that these individuals can be competitive in the global economy. Efforts to reach this population are being undertaken throughout the Richland District. However, current on-campus facilities provide only two classrooms for adult education classes. The on-campus space is also shared with the growing population of English as Second Language students totaling in the community over 3,800

This RAMP application follows the guidelines provided by the Illinois Community College Board. The programmatic justification addresses the basic questions noted by the ICCB for the recommended project and includes the necessary application forms. Supporting documentation includes the revised Master Plan and applicable date.

While this process allows for a formal application of State funding, the project is one that will benefit the many diverse students served by Richland Community College.

What will this project accomplish?

This project will allow the College to develop a proper educational space where a greater number of adult education students can be served, will provide space for Richland to expand its educational partnership activities that address the area's relatively low educational attainment rate, and expand the College's ability to serve its community through educational laboratories and meeting rooms.

The majority of adult education classes take place in locations that are convenient to the population being served, yet many of the necessary support activities are being conducted on campus. In this ever-changing and increasingly more competitive society, District residents will need education throughout life. Space that is conducive to teaching adult learners and that is not threatening to "non-college" students will facilitate those students' transfer to additional higher education or training. Providing support services such as convenient childcare, access to technology, and career services in a non-threatening environment will greatly increase the students' chances for success.

Additional support services through improved educational partnerships with business and industry partners will further enhance the students' success. Creating partnerships opportunities that tie the educational experience to the success of our students is a primary focus for the College and is a significant goal of the current Strategic Plan. The College currently does not have the physical resources to undertake this type of education to the extent that the community has for this need.

Constructing a new Community Education Center is proposed to be an expansion of the College's Shilling Community Education Center. Infrastructure such as roadways, utilities, drainage, and parking are needed to locate this facility properly and safely.

How will the project meet instructional objectives of the College?

Working with our community partners and businesses to establish a strong bond between the College, our students, and employers contributes strongly to the on-going success of our students. Community partners bring a current and valuable element to the educational process. This project will enable the College to construct interaction among the students, businesses, and College. Richland has a proven success record within the partnership realm and the project facilitates that synergy.

Also, this project enables the College to address the greatly underserved population of our community by eliminating barriers to education, centralizing support services for this population, providing more access for our students to participate in actual workplace settings, and creating a physical link for this population of students to transition to higher education. It will also strengthen The College's connections with other educational providers by sharing instructional spaces.

How will the new and remodeled space better serve instructional/programmatic areas as compared to existing facilities?

The existing facilities are limited in availability. Currently only two rooms on campus are available for full-time adult education activities including English as a Second Language instruction. Additionally, the existing space will not allow the College to share space for workshops, offices, or supportive activities for this population. Richland simply does not have space that meets all of the necessary public space requirements that can support partnership activity as well as expanded childcare programs in a safe and secure proximity.

Space designed for these specific programs will create a learning environment that promotes sustained learning by removing barriers whether physical or psychological. Many of the students in this population have been intimidated in other traditional learning situations and frequently drop out and are unsuccessful.

Community space is limited to large room or small meeting rooms. The scope of this project will enable the College to address needs for various accommodations that are size dependant.

Assessment of the current facilities

The College's current facilities used to serve this population of students functions well. However, the growing number of students in this demographic category demands that new space is allocated. The small self-contained area used for ESL and Adult Education on campus works quite well for the specified purposes but allows no growth.

Community education space that promotes literacy and lifelong learning is fully utilized. Additionally, Laboratory space that enables students to gain practical experience cannot be done in the current location. Appropriate space designed specifically for this purpose will greatly enhance the programmatic capacity of the College's continuing education offerings. New space must be created in order to serve these multiple stakeholders.

Summary

This project will address several major current facility needs facing Richland. It addresses College needs for space for a large and growing population of local citizens, it provides space that increases the ability to establish partnerships with local entities that have similar purposes, and it provides child care support space for programs and students. The benefits of this project will serve a broad spectrum of Richland's community.

Project Scope

This project includes construction of a multi-use addition to the existing campus facility located on College property adjacent to the Shilling Education Center. The structure will be a multi-story steel and masonry building closely matching the main campus building. The building will require all utilities to be extended from the main building or from other demarcation points. This building will require construction of a parking lot for approximately 100 vehicles as well as a portion of connecting roadway. Other site work includes grading the area for proper drainage and the construction of a water detention area.

General Building Considerations

All new facilities will be constructed to comply with ADA standards. Indoor air quality standards will be reviewed and incorporated into the project.

The new building will maintain the current construction type and standards. All materials for construction will comply with all necessary codes and current standards for the materials used and cost design.

Security video cameras will be installed in the new construction as appropriate and will be integrated into the current campus security system. External security lighting will be included to the extent that continuity of the existing system is maintained.

Equipment Needs

Included in this project application are costs associated with the purchase of fixed equipment including built-in casework, office furnishings, computer stations, waiting room seating, classroom seating, conference room tables and seating, multi-media audio-visual equipment, sound equipment, room darkening window treatments, and child care equipment.

Cost Estimates & Budget Considerations

Cost estimates were developed utilizing current building cost information as well as the Capital Development Board's Cost Guideline by Space Type. The total building costs are summarized in Table 1 of the Capital Budget Request Form.

Funding Considerations

Funding for this project will be available from several sources. State support at the 75% level is requested. Local contributions for Richland Community College's share will be a mixture of available fund balance monies and debt funding.

A proposed breakdown of the funding is shown in the Board of Trustees Matching Funds Commitment form.

Proposed Time Schedule:

Appropriation of Funds	July 2014
Release of Funds	October 2014
Completion of Design	January 2015
Bid Date	August 2015
Award of Contracts	September 2015
Construction Start	October 2015
Beneficial Occupancy	November 2017

**TABLE 2
FY 2016 SUMMARY OF REQUESTED SPACE AND/OR ACREAGE**

		PART A			PART B	
		NET ASSIGNABLE SQUARE FOOTAGE SUMMARY			ACREAGE SUMMARY (Land Acquisition)	
		REQUEST FOR NEW FACILITIES			Number of Acres Requested in Budget Year	
Space Type	FICM Codes	Net Assignable Square Feet (NASF)	Space Prior to Remodeling	Space After Remodeling	# Landscaped Ground	# Physical Education and Athletic Fields
Classrooms	110 thru 115	5,100				
Laboratory	210 thru 255	11,720				
Office	310 thru 355	1,860				
Study	410 thru 455	1,450				
Special Use	510 thru 590	2,450				
General Use: Assembly and Exhibition Other General Use	610 thru 625 630 thru 685	1,550				
Support Facilities	710 thru 765	2,400				
Health Care	810 thru 895					
Unclassified						
TOTAL NASF #		26,530				
TOTAL GSF* #		42,423				

*Gross Square Feet

COMPLETE THE APPLICABLE SECTION--ONE SHEET FOR EACH PROJECT REQUESTED

**TABLE 3
FY 2016 BUILDING BUDGET ESTIMATION FORM**

District/College Richland Community College
Location Decatur
Project Name Community Education Center

(cost column rounded to the nearest hundred)

Space Type	NASF	Multiplier Factor	GSF	\$/GSF	Cost
Classrooms	5,100.0	1.5		7,650.0	\$2,451.2
Labs	11,720.0	1.6		19,220.8	\$5,732.4
Office	1,860.0	1.7		3,162.0	\$902.2
Study	1,450.0	1.7		2,465.0	\$698.3
Special Use	2,450.0	1.8		4,410.0	\$1,161.4
General Purpose	1,550.0	1.7		2,635.0	\$771.3
Support	2,400.0	1.2		2,880.0	\$664.9
1. Base Total	26,530.0			42,422.8	\$12,381.6
2. Added Costs (sum of added cost components identified separately below)					
LEED design cost up to 6% of line 1					
Green Building Design/LEED Certification Level _____ (Silver, Gold, Platinum)					
Other added costs: _____					
3. Base Cost				42,422.8	\$13,124.5
4. Escalation (estimate of cost increase from the time of appropriation to the bid date)					
--insert variables to calculate--assumes appropriation received at July 1).					
Expected Bid Date:	7/1/2015	Number of Months to Bid Date:	13.58		27.1
Annual Percentage (Allowable per annum inflation or less)			0.0		
(the monthly rate will be calculated and multiplied by the months to bid)					
5. Escalated Building Budget (Line 3 plus Line 4)					\$13,151.6
6. Escalated Building Budget Plus 10% Contingency (Line 5 multiplied by 1.10)					\$14,466.7
7. Adds:					
a. A/E Fees _____	0.10				\$1,315.2
b. On-Site Observation Number of Months _____	14.00	Days per Week	January 2, 1900		89.60
c. Reimbursable Expenses _____					\$32.9
d. Art in Architecture one-half of one percent _____				(Multiply Line 6 by .005)	\$72.3
e. Other Adds _____ (ADA, Asbestos, CDB 3% Admin Fee, etc. specify)					
f. Sub-total Adds (Lines 7a through 7e)					\$1,348.0
8. Total Building Budget (Line 6 plus Line 7f)					\$15,814.8

OTHER: Estimate of Annual State Supported Operations and Maintenance Expense _____

Source of Cost Estimate: CDB Cost Guidelines
 Date of Cost Estimate: 5/19/2014

TABLE 4
FY 2015 MOVEABLE EQUIPMENT LIST

District/College: Project Name:	Room Use Classification	Name of Equipment	Number of Units	Cost per Unit	Estimated Total Cost		
Richland Community College Community Education Center	Adult Education	Desks and Chairs	3	10,006	\$30,019		
		Cost per foot	3	1,847	\$5,542		
		LCD Projectors	3	5,850	\$17,550		
		Smart Classroom Package	3	18,473	\$55,420		
		Storage Units	15	770	\$11,546		
	Office	Standard Office Furniture	4	4,618	\$18,473		
		Computer	4	2,771	\$11,084		
		Copier/fax	1	12,008	\$12,008		
		Computers Workstations	25 30	2,771 462	\$69,275 \$13,855		
	Early Childhood	Laboratory	Workstations	4	770	\$3,079	
			Motor Skill Coordination	5	3,849	\$19,243	
			Motor Skill Coordination	6	924	\$5,542	
			Desk & Chairs	4	1,116	\$4,464	
			Instructor's Station	35	231	\$8,082	
	Community Education	Classroom	Instructor's Station	3	2,309	\$6,928	
Desks and Chairs			3	10,006	\$30,019		
Instructor's Station			3	1,847	\$5,542		
LCD Projectors			3	5,850	\$17,550		
Smart Classroom Package Storage Units			3	18,473	\$55,420		
Play Units			4	10,006	\$40,026		
Storage Units			8	1,001	\$8,005		
Motor Skill Building			3	1,339	\$4,018		
Tables			6	693	\$4,157		
Chairs			35	134	\$4,688		
Child Care	Classroom	Electronic Media Package	4	2,617	\$10,468		
		Refrigerator	2	1,386	\$2,771		
		Stove	1	1,078	\$1,078		
		Food Storage Equipment	1	5,388	\$5,388		
		Computers	2	2,771	\$5,542		
		Workstations	2	462	\$924		
		Storage Racks	6	770	\$4,618		
		Storage Racks	15	2,309	\$34,638		
		Public Workshop	Seminar/conferen	Tables	35	847	\$29,634
				Chairs	65	339	\$22,014
Electronic Media Station	2			18,473	\$36,947		
Demonstration Table	2			1,232	\$2,463		
Mobile Coat Rack	5			1,155	\$5,773		
Reception Desk	1			5,388	\$5,388		
Grand Total Equipment Costs (this number should be included on the equipment line of table 1)							\$629,183

TABLE 5

Supplemental Supporting Data

Site Improvements (total on Table 1)

Parking lot for building			
100 spaces	3,100		379,228
Professional Fees			77,514

Utilities

Run sewer, water, electricity, telecommunication to new structure (distance to new building)	Ft. 2,000	Cost per foot 136	
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Construction of new front entry

(Cost included in Table 1 Buildings...)

(From Architect's estimate)

Renovation	Construction	0	0
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Planning
Total Cost

A&E Fees

0

Totals (To be included in Table 1)

Utilities	272,000
Site Improvements	379,228
Planning	77,514

**Fiscal Year 2016
Resource Allocation Management Plan
Capital Funding Request**

Business Education Center Addition and Renovations

Programmatic Justification

Introduction

The Richland Community College District is home to several leading corporations in the global marketplace. These multinational companies need well-trained employees who can add value to the company in a wide variety of technical and skill areas. Assuring that these companies have quality employees who can understand the significance of their local actions having global impact is significant, and training these employees has fallen upon Richland. Realizing this challenge for training employees is no easy task; Richland has begun a course of action to enhance its business and technology programs.

With a rich history of supporting and working closely with its business partners, Richland continues to listen to its business partners. They have indicated that no longer can employees be singularly trained for a certain skill set. Training and education must address the need for employees exhibiting a broad spectrum of core competencies that stress a combination of various business and technological skills. By incorporating this change, Richland's business and technology programs will demonstrate a cross-discipline philosophy.

During this most recent year, College staff have worked diligently to refine the academic programs in the business and technology areas. Through this study, it has become apparent that student learning can be enhanced through the implementation of project based learning systems. Project based learning delivery requires students to work collaboratively among their peers utilizing multiple disciplines in real-world situations. Introducing learning and communications technologies that further enhance the learning environment enrich further the student's academic experience. Students completing this education are better prepared to immediately enter the workforce and be productive employees.

As the College's community partners expand, so does the need for well trained employees. ADM is expanding its logistical operations base in Decatur. Through this expansion, the district will see a greater need for employees that have industry specific skills related to the logistics industry. Richland will fill this need through an expansion of the Business Education Center's laboratories and classrooms. Richland partnered with Western Illinois University and ADM for a degree completion program on the Richland campus that would provide students with a unique educational opportunity. A laboratory specific to a commodities trading program will be incorporated into the project.

Working in various countries also requires employers to have a workforce that will function efficiently in the different cultures. In today's global marketplace, cross-cultural training is a necessity. Understanding other cultures can greatly enhance international relationships and create more favorable working conditions for employees on overseas

assignments. Employees must have a clear understanding of the values, behaviors, and attitudes encountered in other countries and the impact such values have on their work. Employees must be equipped to choose the right techniques for dealing with international cultural and business issues effectively.

What will this project accomplish?

In the summer of 2011, Richland's Board of Trustees adopted a new strategic plan. The Plan includes several initiatives driven by an environmental scan, community engagement activities, external advisory committee input, and the vision created by the College's Board of Trustees. In addition to the value added to the Strategic Plan as a result of these data-gathering exercises, another work product emerged and has been named College's Invitation to the Future. The Invitation to the Future is a collection of concepts that support economic development through education and training and that meet the specific needs of the region's multi-national corporations. One aspect of the Invitation to the Future calls for the creation of a business education program incorporating platforms to emphasize the relatedness of different business and technology functional areas.

A physical environment that will facilitate enriched business and technological education and training programs will give students a true picture of the workplace. This environment will also allow the College to create a social environment that will reinforce teamwork and communication among the students.

The facility will be designed such that the integrated curriculum will provide for cross-cultural training, which is critically important to our multinational corporations. Students must learn how to function in different cultures. The facility will be designed such that cultural aspects of business as well as social interactions can be simulated.

How will the project meet instructional objectives of the College?

This project addresses critical workforce skills shortage in the business and technology fields with a focus on multinational corporate needs. Richland is developing the necessary educational and training opportunities that will provide real-world experiences. Renovating the area to accommodate emerging technologies in a business environment also meets the educational goals established in the recently adopted Strategic Plan.

In addition to creating educational opportunities for individuals wishing to improve their careers, the revitalized programming will support incumbent workers wishing to improve their skills necessary to compete in the global market. The space will also create an environment that enhances the College soft-skills training such as workplace readiness for entry-level employees.

How will the new and remodeled space better serve instructional/programmatic areas as compared to existing facilities?

The College's business programs, especially information technology classes, are conducted in spaces that were designed as general classroom space at the time the campus was constructed. No significant updating of the facility has been undertaken; however, with emerging technologies and transformations in business processes updated space is necessary. These renovations will include transforming existing classroom and laboratory space into a modern business school climate that resembles a high-tech office environment. An addition to the south wing to accommodate an elevator

and expansion of a faculty office suite will be constructed. Other classrooms and meeting spaces for small group learning will need to be included.

Assessment of the current facilities:

A portion of the existing facility is suitable to house a new Business Center. Certain programmatic needs cannot be met in existing facilities. Extensive renovations are necessary. The existing facilities were designed with a traditional general education concept. Many of the current technology laboratories were originally constructed as general classrooms for approximately 15 to 20 students. These spaces were converted to computer laboratories simply by placing different furniture in the rooms. These facilities were constructed before the PCs and laptops were available and as such the learning environments are poor for this use. Effectively, no storage capacity is available within close proximity.

Many of the current teaching methods surrounding business functions promote teamwork and small group learning. No rooms exist where students can gather in efficiently designed spaces supported by a full complement of current technology.

Project Scope

The project will encompass redesign and realignment of approximately 10,800 square feet on the second floor and an addition of approximately 12,000 square feet adjacent to the first floor of the South Wing. Modifications will include removal and replacement of walls, floor finishes, ceilings, mechanical, HVAC, and electrical systems within the Wing.

In addition to the renovations, a new addition to the building will provide for a new entry into the space and allow for installation of an elevator. Currently, the second floor of the building is serviced by only one elevator. Site work at and around the entrance will be necessary in order to designate the entrance appropriately.

General Building Considerations

All new and renovated facilities will comply with LEED criteria and ADA standards. Individual comfort that promotes a positive learning environment is critical to the proposed renovations.

The new addition will be constructed utilizing similar materials as the current construction type across the campus. All materials for construction will comply with all necessary codes and current standards for the materials used and cost design.

Security video cameras will be installed in the areas as appropriate and will be integrated into the current campus security system. External security lighting will be included to the extent that continuity of the existing system is maintained.

The facility will include new construction technologies and materials as an effort to support a sustainable building. Minimal guidelines established by the State will be set as a threshold for the construction. As funding and technology allow, additional “green building” initiatives will be incorporated into the design.

Equipment Needs

Included in this project application are costs associated with the purchase of fixed equipment including built-in casework, office furnishings, computer stations, specialized laboratory equipment, conference room tables and seating, multi-media audio-visual

equipment, sound equipment, and other infrastructure that supports computer network access as it pertains to educational needs.

Cost Estimates & Budget Considerations

The College's administration has developed the building design and cost estimates based on experience and CDB cost guidelines. The total building costs are summarized in Table 1 of the Capital Budget Request Form.

Additional costs for attachment to an existing building have been incorporated into the budget estimate as directed by the Capital Development Board. The costs have been adjusted to include green building construction requirements.

Funding Considerations

Funding for this project will be available from several sources. State support at the 75% level is requested. Local contributions for Richland Community College's share will be a mixture of funds from corporate sponsors, Protection, Health, and Safety levy, and debt. A proposed breakdown of the funding is shown in the Board of Trustees Matching Funds Commitment form.

Proposed Time Schedule:

Appropriation of Funds	July 2014
Release of Funds	October 2014
Completion of Design	March 2015
Bid Date	April 2015
Award of Contracts	May 2015
Construction Start	June 2015
Completion/Occupancy	June 2018

**TABLE 1
FISCAL YEAR 2016 CAPITAL PROJECT REQUEST**

DISTRICT/COLLEGE: Richland Community College

PROJECT NAME AND/OR DESCRIPTION Business Education Center Addition and Renovations

DISTRICT PRIORITY NUMBER 3 **OUT OF** 4

Check one:
 NEW FACILITIES CONSTRUCTION/ACQUISITION (Complete Table 2)
 REMODELING/REHABILITATION PROJECT (Complete Table 2)
 OTHER (Complete Table 2 or provide additional information per instructions)

Check one:
 NEW REQUEST
 REQUESTED PREVIOUSLY

Dollars rounded to the nearest hundred (for example and per instructions enter \$1,456,789 as \$1,456.8)

PROJECT CATEGORIES*	PRIOR YEARS FUNDING*			CURRENT REQUEST FY			BEYOND CURRENT YEAR*			TOTAL PROJECT COST		
	STATE FUNDS	LOCAL FUNDS	TOTAL COST	STATE FUNDS	LOCAL FUNDS	TOTAL COST	STATE FUNDS	LOCAL FUNDS	TOTAL COST	STATE FUNDS	LOCAL FUNDS	TOTAL COST
BLDGS, ADDITIONS, AND/OR STRUCTURES				5,009.3	1,669.8	6,679.1				5,009.3	1,669.8	6,679.1
EQUIPMENT				346.5	115.5	462.0				346.5	115.5	462.0
UTILITIES												
REMODELING & REHABILITATION				1,620.0	540.0	2,160.0				1,620.0	540.0	2,160.0
SITE IMPROVEMENTS												
PLANNING												
TOTAL				6,975.8	2,325.3	9,301.1				6,975.8	2,325.3	9,301.1

* Describe prior year funding and/or future year funding in the scope statement section using the requested format. State funds should equal 75% of total and local funds should equal 25% of total. ICCB will adjust for credits

TOTAL PROJECT REQUEST (CURRENT YEAR)	\$	9,301
TOTAL COMPLETED PROJECT COST	\$	9,301
DESIRED PROJECT START DATE		6/30/2015
ESTIMATED COMPLETION DATE		10/31/2016
ESTIMATED OCCUPANCY DATE		12/31/2016
ESTIMATED ANNUAL OPERATING COST	\$	\$60,000

MATCHING CONTRIBUTION	\$	
(See item 10 in Section 1 of this Manual)		
LOCAL FINANCING SOURCE		
AVAILABLE FUND BALANCE	\$	1,900
ICCB CONSTRUCTION CREDIT	\$	
(if any)		
DEBT ISSUE	\$	425
DATE OF APPROVAL:		
OTHER (please specify)	\$	
TOTAL	\$	2,325

COMPLETE ONE SHEET FOR EACH PROJECT REQUESTED

**TABLE 2
FY 2016 SUMMARY OF REQUESTED SPACE AND/OR ACREAGE**

Space Type	FICM Codes	PART A			PART B											
		NET ASSIGNABLE SQUARE FOOTAGE SUMMARY			ACREAGE SUMMARY (Land Acquisition)											
		REQUEST FOR NEW FACILITIES	REDISTRIBUTION OF NASF SPACE	REMODELING	REMODELING	Number of Acres Requested in Budget Year										
		Net Assignable Square Feet (NASF)	Space Prior to Remodeling	Space After Remodeling	1 Landscaped Ground	2 Physical Education and Athletic Fields	3 Buildings and Attached Structures	4 Experimental Plots	5 Other Instructional Areas	6 Parking Lots	7 Roadways	8 Pond Retention and Drainage	9 Other (specify)	Total Assigned Area	Currently Unassigned	Total Acres
Classrooms	110 thru 115	2,600	5,660	4,644												
Laboratory	210 thru 255	5,900	3,393	3,240												
Office	310 thru 355	480	1,595	1,080												
Study	410 thru 455	1,500		1,620												
Special Use	510 thru 590															
General Use: Assembly and Exhibition Other General Use	610 thru 625 630 thru 685	800														
Support Facilities	710 thru 765	900	152	216												
Health Care	810 thru 895															
Unclassified																
TOTAL NASF #		12,180	10,800	10,800												
TOTAL GSF* #		18,541														

*Gross Square Feet

COMPLETE THE APPLICABLE SECTION--ONE SHEET FOR EACH PROJECT REQUESTED

**TABLE 3
FY 2016 BUILDING BUDGET ESTIMATION FORM**

District/College Richland Community College
Location Decatur, IL
Project Name Business Education Center Addition and Renovations

(cost column rounded to the nearest hundred)

Space Type	NASF	Multiplier Factor	GSF	\$/GSF	Cost
Classroom	2,600	1.50	3,900	263	\$1,026.6
Laboratory	5,900	1.55	9,145	280	\$2,560.6
Office	480	1.70	816	270	\$220.3
Study	1,500	1.60	2,400	260	\$624.0
General	800	1.50	1,200	255	\$306.0
Support	900	1.20	1,080	247	\$266.8
1. Base Total	12,180		18,541		\$5,004.3
2. Added Costs (sum of added cost components identified separately below)					
LEED design cost up to 6% of line 1					\$420.3
Green Building Design/LEED Certification Level				(Silver, Gold, Platinum)	\$300.3
Other added costs: Elevator					\$120.0
3. Base Cost	12,180		18,541		\$5,424.5

4. Escalation (estimate of cost increase from the time of appropriation to the bid date
 --assumes appropriation is received at July 1, 2013).
 Expected Bid Date: July 1, 2015 Number of Months to Bid Date: 12
 Annual Percentage (Allowable per annum inflation) from regional rate tables: _____
 (Enter annual rate as a decimal in cell J35; i.e. 2.2% as .022)
 (inflation rate and number of months to bid are estimates and for purposes of calculating estimated costs will be standardized at 12 months to bid)
5. Escalated Building Budget (Line 3 plus Line 4) \$5,424.5
6. Escalated Building Budget Plus 10% Contingency (Line 5 multiplied by 1.10) \$5,967.0
7. Adds:
- a. AVE Fees 0.08 % (use rate in E45 unless justification for another rate) \$477.4
 - b. On-Site Observation Number of Month 14 Days per Week 2 \$14.0
 - c. Reimbursable Expenses \$18.0
 - d. Art in Architecture one-half of one percent (Multiply Line 6 by .005) \$29.8
 - e. Other Adds _____ (ADA, Asbestos, CDB 3% Admin Fee, etc. specify) \$172.9
 - f. Sub-total Adds (Lines 7a through 7e) \$712.1
8. Total Building Budget (Line 6 plus Line 7f) \$6,679.1
- OTHER:
 Estimate of Annual State Supported Operations and Maintenance Expense _____
- Source of Cost Estimate: _____ Architect Estimate
 Date of Cost Estimate: _____ 5/19/2014

**TABLE 4
FY 2015 MOVEABLE EQUIPMENT LIST**

**District/College: 537 Richland Community College
Project Name: Business Education Center Addition & Renovations**

(cost column rounded to the nearest dollar--please round the grand total equipment cost to the nearest hundred when you transfer to table 1)

Programmatic Unit	Room Use Classification	Name of Equipment	Number of Units	Cost per Unit	Estimated Total Cost
Business Ed.	Classroom	Furniture	75	459	34,391
		Multi-media	3	12,228	36,684
	Lab	Furniture	125	510	63,688
		Multi-media	5	12,228	61,140
		Trading Room Technology Collaborative Labs	1	122,280	122,280
		4	25,000	100,000	
Health Care Ed	Health Lab	Cadaver Storage	1	18,342	18,342
General	Lobby	Furniture	1	25,475	25,475

Grand Total Equipment Costs (this number should be included on the equipment line of table 1) \$462,000

COMPLETE ONE SHEET FOR EACH PROJECT REQUESTING MOVEABLE EQUIPMENT

*Fiscal Year 2016
Resource Allocation Management Plan
Capital Funding Request*

Life Sciences/Health Professions Addition

Programmatic Justification

Introduction

The health care industry continues to grow and is creating increasing demands for well-trained health care professionals. Local healthcare providers are expanding and offering new services. Within the Richland district, collectively the health care industry is the second largest employer. As one of Richland Community College's strongest program areas, healthcare classes are in demand and typically have waiting lists for program entry. This demand for healthcare professionals is anticipated to increase as the aging population of the District increases.

Training that enables students to meet the academic rigor for professional certification requires good instruction in various healthcare programs using current technology delivered in proper educational environments. The College strives to provide all of these resources. Adding to the existing program space will support additional instruction in modern laboratories.

To meet the increasing demands of this industry, Richland seeks to offer emerging health professional programming. Evidence supports new programs such as physical and occupational therapy, higher level training for certifications X-ray technology, and other programs that provide services to a senior population.

A report by Institute for Change, Partners in Care Foundation of San Fernando, California provides insight to expanded healthcare opportunities by identifying the following six emerging healthcare careers: "They are: community health worker; chronic illness coach; medications coach; patient navigator/advocate; home- and community based service navigator/advocate; and home modification specialist." By developing appropriate training and educational space, Richland will be able to serve its community demand for well-trained professionals in a flexible educational environment that is delivered with current technology.

Supporting the healthcare programs requires students to have broad-based knowledge within several disciplines. Specifically, these program areas include training in sciences such as biology, chemistry, and human anatomy. The College's science laboratories are over 25 years old and have not been renovated since the campus was constructed originally. This facility will allow the College to expand program offerings that meet emerging industry needs while addressing the deficiencies of the aging laboratories.

In addition for the need to address the science-supported education of the healthcare industry, students with strong educational backgrounds in the science and technology fields will see better job offerings with higher demand. Richland must be poised to address this need as well.

A report by The United States Department of Commerce provides the following assessment of the need for expanded education in the science, technology, engineering, and mathematics (STEM) areas entitled *STEM: Good Jobs Now and for the Future*: “Science, technology, engineering and mathematics (STEM) workers drive our nation’s innovation and competitiveness by generating new ideas, new companies, and new industries. However, U.S. businesses frequently voice concerns over the supply and availability of STEM workers. Over the past 10 years, growth in STEM jobs was three times as fast as growth in non-STEM jobs. STEM workers are also less likely to experience joblessness than their non-STEM counterparts. Science, technology, engineering and mathematics workers play a key role in the sustained growth and stability of the U.S. economy, and are a critical component to helping the U.S. win the future. In 2010, there were 7.6 million STEM workers in the United States, representing about 1 in 18 workers. STEM occupations are projected to grow by 17.0 percent from 2008 to 2018, compared to 9.8 percent growth for non-STEM occupations. STEM workers command higher wages, earning 26 percent more than their non-STEM counterparts. More than two-thirds of STEM workers have at least a college degree, compared to less than one-third of non-STEM workers. STEM degree holders enjoy higher earnings, regardless of whether they work in STEM or non-STEM occupations.”

Leading innovation and increasing competitiveness through new ideas carried out in progressive organizations with a strong entrepreneurial spirit will contribute to the local economic base. As one key component of this new economy, business must have an available supply of well trained workers. Specifically, those trained in STEM disciplines. Richland Community College has an obligation to its community to provide training and education in these fields. Coupling the education in STEM areas with the College’s efforts in the carbon capture and sequestration technologies, clean coal technologies, and alternative energy will provide a rich resource for future jobs. By creating a well-trained talent pool for employers, the economic base within the College community will thrive and prosper.

The Commerce Department’s report continues to support growth in the jobs for those individuals with higher degrees as well as those with a two-year higher education degree. “Nonetheless, because STEM includes professionals as well as first-tier support jobs, we find that a number of STEM workers have less than a four-year college degree; nearly one-quarter (23 percent) have completed an associate degree, or at least some college and 9 percent have a high school diploma or less. So while it is certainly true that the majority of STEM workers tend to have at least a bachelor’s degree, opportunities also exist for STEM workers with lower education levels.”

Developing laboratories that support modern use of technology that students will be exposed to in their jobs is critical to the very essence of community college education. Richland’s support for increased education in the STEM and the health professions of the future will be demonstrated by the construction and development of laboratories and classrooms with state-of-the-art technology. The existing biology and chemistry laboratories have reached the 25 years old mark and need substantial updating. By initiating a business model that couples student’s education with local

entrepreneurs as well as regional healthcare industries, Richland may serve locally as the pipeline for substantial federal grant support.

Development of a facility that supports enrollment in STEM education and invites local business to enhance their talent pool will create a local economic expansion that will be prosperous for the College and its community.

What will this project accomplish?

Richland's Board of Trustees adopted a new strategic plan in the spring of 2013. The Plan recognizes the College's future need to replace aging science laboratories with new state-of-the-art laboratories that make available education that supports the local economy. Additionally, health care is currently the largest employment growth area in the College's District. Richland provides education and continuing training for a great many of the health care industry's employees. These employees are required to have sound science backgrounds. Construction of this type of laboratory facility will support the health care industry and provide a ready labor pool for entrepreneurs needing technicians with specific STEM based education.

Richland has experienced a dramatic growth in the health care program area. Space for physiology and cadaver labs as well as a need for expanded health care laboratories will greatly enhance the College's ability to supply the health care industry's employment needs.

How will the project meet instructional objectives of the College?

This project addresses critical workforce skills shortage in STEM fields with a focus on physical and life sciences including healthcare. Richland is developing the necessary educational and training opportunities that will provide real-world experiences. Educational goals established in the recently adopted strategic plan and expansion of the College's economic development efforts support the area's need for a greater educated workforce.

Community college philosophy incorporates active learning through applied learning techniques. Creation of the new space will allow the College to partner with private corporations and entrepreneurs to share learning spaces. Though a shared educational environment, students will have the opportunity to receive hands-on real world applications accompanying the theoretical based instruction.

How will the new space better serve instructional/programmatic areas as compared to existing facilities?

The existing science laboratories have reached the age that renovation is necessary in order to accommodate new technology. Additionally, the College is modifying its business model to incorporate the possibility of public private partnerships in the facility. Through the public private environment, students will gain a real world application of the learning concepts. The current space is not constructed in such a way that will accommodate this model. Additionally, greater flexibility with modifying the laboratory technology and learning space is needed to incorporate this delivery method.

Healthcare instructional space specific to emerging fields or new program areas is limited. With an expansion of available laboratory space, a greater number of students will have access to classes. A waiting list exists for all healthcare programs at Richland.

Assessment of the current facilities:

Only a portion of the existing facility is suitable to house these programs. Certain programmatic needs cannot be met in existing facilities. The current facilities are limited in the overall space that can accommodate the new vision and as such substantially altered space would be needed. Preliminary estimates suggest that new space will be more cost effective to construct rather than modifying existing spaces.

For new programs such as physical therapy, the College does not have sufficient space to accommodate a program. As other new offerings with specific laboratory needs are developed, appropriate teaching and learning space will need to be incorporated into the campus.

Many of the current teaching methods surrounding the science functions are set up for traditional teaching. Teaching methodologies will be incorporated that replicates actual research and development laboratories. No classrooms in the area currently exist where students can receive instruction supported by a full complement of current science technology. This need cannot be accommodated within the existing configuration of the space.

Project Scope

A new addition of approximately 55,000 square feet adjacent to the first floor of the Schrodt Health Education Wing will be constructed. The building will provide for a new entry directly into the south side of the main campus. Ideally, the facility will be a two-story structure connecting to the second floor of the Main Campus South Wing. Adequate parking and access to the building addition will be constructed adjacent to the building. All necessary utility work will be connected to a new physical plant area that can support the utility needs of the new space.

General Building Considerations

All new and renovated facilities will comply with LEED criteria and ADA standards. Individual comfort that promotes a positive learning environment is critical to the proposed renovations.

The new addition will be constructed utilizing similar materials as the current construction type across the campus. All materials for construction will comply with all necessary codes and current standards for the materials used and cost design.

Security video cameras will be installed in the areas as appropriate and will be integrated into the current campus security system. External security lighting will be included to the extent that continuity of the existing system is maintained.

The facility will include new construction technologies and materials as an effort to support a sustainable building. Minimal guidelines established by the State will be set as a threshold for the construction. As funding and technology allow, additional “green building” initiatives will be incorporated into the design.

Equipment Needs

Included in this project application are costs associated with the purchase of fixed equipment including built-in casework, office furnishings, computer stations, specialized laboratory equipment, conference room tables and seating, multi-media audio-visual equipment, sound equipment, and other infrastructure that supports computer network access as it pertains to educational needs. An allowance for special and program specific equipment will need to be accounted for as part of this project.

Cost Estimates & Budget Considerations

The College’s administration has developed the building design and cost estimates based on experience and the CDB’s cost guidelines. The total building costs are summarized in Table 1 of the Capital Budget Request Form.

Additional costs for attachment to an existing building have been incorporated into the budget estimate as directed by the Capital Development Board. The costs have been adjusted to include green building construction requirements.

Funding Considerations

Funding for this project will be available from several sources. State support at the 75% level is requested. Local contributions for Richland Community College’s share will be a mixture of funds from corporate sponsors and debt. A proposed breakdown of the funding is shown in the Board of Trustees Matching Funds Commitment form.

Proposed Time Schedule:

Appropriation of Funds	July 2014
Release of Funds	October 2014
Completion of Design	March 2016
Bid Date	April 2016
Award of Contracts	May 2016
Construction Start	June 2016
Completion/Occupancy	December 2017

**TABLE 2
FY 2016 SUMMARY OF REQUESTED SPACE AND/OR ACREAGE**

Space Type	FICM Codes	PART A		PART B		
		NET ASSIGNABLE SQUARE FOOTAGE SUMMARY		ACREAGE SUMMARY (Land Acquisition)		
REQUEST FOR NEW FACILITIES		REDISTRIBUTION OF NASF SPACE		Number of Acres Requested in Budget Year		
		Net Assignable Square Feet (NASF)	Space Prior to Remodeling	Space After Remodeling		
Classrooms	110 thru 115	5,400			1 Landscaped Ground	
Laboratory	210 thru 255	13,900			2 Physical Education and Athletic Fields	
Office	310 thru 355	4,920			3 Buildings and Attached Structures	
Study	410 thru 455	900			4 Experimental Plots	
Special Use	510 thru 590	4,200			5 Other Instructional Areas	
General Use: Assembly and Exhibition Other General Use	610 thru 625 630 thru 685	1,750			6 Parking Lots	
Support Facilities	710 thru 765	2,850			7 Roadways	
Health Care	810 thru 895				8 Pond Retention and Drainage	
Unclassified					9 Other (specify)	
					Total Assigned Area	
					Currently Unassigned	
					Total Acres	
TOTAL NASF #		33,920				
TOTAL GSF* #		55,308				

*Gross Square Feet

COMPLETE THE APPLICABLE SECTION--ONE SHEET FOR EACH PROJECT REQUESTED

**TABLE 3
FY 2016 BUILDING BUDGET ESTIMATION FORM**

District/College #537 Richland Community College
Location Decatur, IL
Project Name Life Sciences Addition

(cost column rounded to the nearest hundred)

Space Type	NASF	Multiplier Factor	GSF	\$/GSF	Cost
Classrooms	5400	1.5	8,100	286	\$2,154,600.0
Labs (dry)	3,400	1.64	5,576	298	\$1,661,648.0
Labs (wet)	3,400	1.64	5,576	315	\$1,756,440.0
Labs (Research Dry)	1,100	1.67	1,837	397	\$729,289.0
Labs (Research Wet)	6,000	1.67	10,020	417	\$4,176,340.0
Office	4,920	1.7	8,364	275	\$2,300,100.0
Study	900	1.7	1,530	268	\$410,040.0
Special Use	4,200	1.8	7,560	266	\$2,010,960.0
General Purpose	1,750	1.9	3,325	318	\$1,057,350.0
Support	2,850	1.2	3,420	248	\$848,160.0
1. Base Total	33,920		55,308		\$17,106,927.0
2. Added Costs (sum of added cost components identified separately below)					
LEED design cost up to 6% of line 1 _____ (Silver, Gold, Platinum)					
Green Building Design/LEED Certification Level _____					
Other added costs: _____					
3. Base Cost			33920	55308	\$18,133,342.6

4. Escalation (estimate of cost increase from the time of appropriation to the bid date
 --assumes appropriation is received at July 1, 2013)
 Expected Bid Date: July 1, 2016 Number of Months to Bid Date: 12
 Annual Percentage (Allowable per annum inflation) from regional rate tables _____
 (Enter annual rate as a decimal in cell J35; i.e. 2.2% as .022)
 (inflation rate and number of months to bid are estimates and for purposes of calculating estimated costs will be standardized at 12 months to bid)
5. Escalated Building Budget (Line 3 plus Line 4) \$18,133,342.6
6. Escalated Building Budget Plus 10% Contingency (Line 5 multiplied by 1.10) \$19,946,676.9
7. Adds:
- a. A/E Fees 10.00% (use rate in E45 unless justification for another rate) \$1,994,667.7
 - b. On-Site Observation Number of Months _____ Days per Week _____
 - c. Reimbursable Expenses \$25,000.0
 - d. Art in Architecture one-half of one percent (Multiply Line 6 by .005) \$99,733.4
 - e. Other Adds _____ (ADA, Asbestos, CDB 3% Admin Fee, etc. specify)
 - f. Sub-total Adds (Lines 7a through 7e) \$2,119,401.1
8. Total Building Budget (Line 6 plus Line 7f) \$22,066,078.0
- OTHER: Estimate of Annual State Supported Operations and Maintenance Expense _____
- Source of Cost Estimate: Locally adjusted CDB Rates
 Date of Cost Estimate: 5-16-14

TABLE 4
FY 2016 MOVEABLE EQUIPMENT LIST

District/College: 537 Richland Community College
Project Name: Life Sciences Addition

(cost column rounded to the nearest dollar--please round the grand total equipment cost to the nearest hundred when you transfer to table 1)

Programmatic Unit	Room Use Classification	Name of Equipment	Number of Units	Cost per Unit	Estimated Total Cost
Biology	Classroom	Furniture	30	450	13,500
	Classroom	Teachers Station	1	1,500	1,500
	Classroom	Multi-media presentation	1	12,000	12,000
	Laboratory	Furniture	30	750	22,500
	Laboratory	Multi-media presentation	1	12,000	12,000
	Laboratory (Research) Equipment		2	350,000	700,000
	Office	Furniture	4	3,500	14,000
	Study	Furniture	1	1,500	1,500
	Support	Storage Racks	1	2,000	2,000
	Classroom	Furniture	30	450	13,500
Chemestry	Laboratory	Furniture	60	750	45,000
	Laboratory	Multi-media presentation	2	12,000	24,000
	Laboratory (Research) Equipment		2	350,000	700,000
	Office	Furniture	2	3,500	7,000
	Study	Furniture	1	1,500	1,500
	Support	Storage Racks	1	2,000	2,000
	Classroom	Furniture	30	450	13,500
	Laboratory	Furniture	30	750	22,500
	Laboratory	Multi-media presentation	1	12,000	12,000
	Office	Furniture	2	3,500	7,000
Physical	Support	Storage Racks	1	2,000	2,000
	Classroom	Furniture	30	450	13,500
	Laboratory	Furniture	30	750	22,500
	Laboratory	Multi-media presentation	1	12,000	12,000
	Office	Furniture	2	3,500	7,000
	Support	Storage Racks	1	2,000	2,000
	Classroom	Furniture	60	450	27,000
	Laboratory	Furniture	30	750	22,500
	Laboratory	Multi-media presentation	1	12,000	12,000
	Office	Furniture	4	3,500	14,000
Shared Research	Laboratory	Cadaver equipment	1	10,000	10,000
	Laboratory (Research) Equipment		2	350,000	700,000
	Laboratory	Equipment	1	100,000	100,000
	Office	Furniture	4	3,500	14,000
	Special Use	Furniture	70	650	45,500
	Special Use	Multi-media presentation	2	12,000	24,000
	General Purpose	Seating	1	14,000	14,000
	Support	Storage Unit	3	1,500	4,500
	General Purpose	Furniture	1	20,000	20,000
	General Purpose	Information Display System	1	7,500	7,500
Grand Total Equipment Costs (this number should be included on the equipment line of table 1)					2,644,000

COMPLETE ONE SHEET FOR EACH PROJECT REQUESTING MOVEABLE EQUIPMENT

BOARD OF TRUSTEES MATCHING FUNDS COMMITMENT

I hereby certify that the Board of Trustees of Richland Community College, District #537, meeting in their regular session on 6/17/14, with a quorum present, officially authorized the submission of the attached Fiscal Year 2016 RAMP Community College Capital Project Request.

- I certify that the Board reviewed and approved the attached programmatic justification, scope of work, and related forms for the project identified below.
- I further certify that Board has made a commitment to either use available assets and/or credits, or to make local funds available for the project requested as indicated below, should the project be approved.

PROJECT NAME: Global Agribusiness Center/National Bioenergy Education Center

Proposed Source(s) of Local Funding

	(List the Dollar Amount)
1. Available Local Fund Balances	\$ _____
2. Protection, Health, and Safety Tax Levy	\$ _____
3. Protection, Health, and Safety Bond Proceeds	\$ _____
4. Other Debt Issue	\$ <u>3,577</u>
5. State Certified Construction Credits (Remaining from 1987)	\$ _____
6. Other (Please specify) _____	\$ _____
TOTAL LOCAL MATCH	\$ <u>3,577</u>

Signed _____
Chairperson of the Board of Trustees

Signed _____
Chief Executive Officer of the College District

COMPLETE ONE FOR EACH PROJECT REQUESTED

BOARD OF TRUSTEES MATCHING FUNDS COMMITMENT

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PROJECT NAME: Community Education Center

Proposed Source(s) of Local Funding

	(List the Dollar Amount)
1. Available Local Fund Balances	\$ _____
2. Protection, Health, and Safety Tax Levy	\$ _____
3. Protection, Health, and Safety Bond Proceeds	\$ _____
4. Other Debt Issue	\$ <u>4,293</u>
5. State Certified Construction Credits (Remaining from 1987)	\$ _____
6. Other (Please specify) _____	\$ _____
TOTAL LOCAL MATCH	\$ <u>4,293</u>

Signed _____
Chairperson of the Board of Trustees

Signed _____
Chief Executive Officer of the College District

COMPLETE ONE FOR EACH PROJECT REQUESTED

BOARD OF TRUSTEES MATCHING FUNDS COMMITMENT

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PROJECT NAME: Business Education Center Addition and Renovations

Proposed Source(s) of Local Funding

	(List the Dollar Amount)
1. Available Local Fund Balances	\$ <u>1,900</u>
2. Protection, Health, and Safety Tax Levy	\$ _____
3. Protection, Health, and Safety Bond Proceeds	\$ _____
4. Other Debt Issue	\$ <u>425</u>
5. State Certified Construction Credits (Remaining from 1987)	\$ _____
6. Other (Please specify) _____	\$ _____

TOTAL LOCAL MATCH

\$ 2,325

Signed _____
Chairperson of the Board of Trustees

Signed _____
Chief Executive Officer of the College District

COMPLETE ONE FOR EACH PROJECT REQUESTED

BOARD OF TRUSTEES MATCHING FUNDS COMMITMENT

I hereby certify that the Board of Trustees of Richland Community College, District #537, meeting in their regular session on 6/17/14, with a quorum present, officially authorized the submission of the attached Fiscal Year 2016 RAMP Community College Capital Project Request.

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- I further certify that Board has made a commitment to either use available assets and/or credits, or to make local funds available for the project requested as indicated below, should the project be approved.

PROJECT NAME: Life Sciences/Health Professions Addition

Proposed Source(s) of Local Funding

	(List the Dollar Amount)
1. Available Local Fund Balances	\$ _____
2. Protection, Health, and Safety Tax Levy	\$ _____
3. Protection, Health, and Safety Bond Proceeds	\$ _____
4. Other Debt Issue	\$ <u>6,489</u>
5. State Certified Construction Credits (Remaining from 1987)	\$ _____
6. Other (Please specify) _____	\$ _____
 TOTAL LOCAL MATCH	 \$ <u>6,489</u>

Signed _____
Chairperson of the Board of Trustees

Signed _____
Chief Executive Officer of the College District

COMPLETE ONE FOR EACH PROJECT REQUESTED