

## 2016-2017 Endowed Chairs for Learning Leadership Application Form

**Chair:** Category II - 912 - Hubbard Construction Company Chair in Technical and Engineering Programs \$4,100

- **Applicant:** Andrew Ray
- **Job Title:** Program Chair - Built Environment Programs
- **Discipline:** Building Construction
- **Dean:** Dr. Lisa Macon
- **Admin Assistant:** Candace Richards
- **Campus President:** Falecia Williams
- **As of the date of this application, have you signed a continuing contract?** (Please note: tenure-track faculty are not eligible to apply for endowed chairs.)

Yes

- **As of the date of this application, do you devote at least sixty (60) percent of your regularly assigned duties to instructing or counseling students?**

Yes

- **Are there any co-applicants for this proposal?** No

- **Project Title:** Active Learning Projects

- **Brief description of your Project** (as it will appear in the Grove if your proposal is selected) *Maximum characters allowed: 500 (including spaces):*

The Hubbard Construction Chair supports educational programs in building construction, drafting & design, land surveying, and other technology areas. If approved, these funds will purchase tools and equipment to support active learning projects with AS students across multiple disciplines. One proposed project is construction of a Tiny House, with AS students applying design, project management, and construction skills, potentially working in partnership with local non-profits.

**Please describe how you will use the Learning Leadership Chair award including the following:**

- **Your intended personal learning outcomes**  
*Maximum characters allowed: 800 (including spaces)*

One personal interest is Tiny Houses and re-purposing shipping containers following sustainable construction practices. My long professional involvement with affordable housing included several Central Florida non-profits as clients, and my Fall 2015 sabbatical through 29 countries in Europe allowed me to see a variety of housing solutions both temporary and permanent, including shipping container apartments in Amsterdam. Some BCT students are lacking basic carpentry skills, and have expressed an interest in undertaking real construction projects on which they can learn to use standard tools. As I have done with previous Endowed Chair projects, this project will allow me to provide students an opportunity to apply the theory

and industry practices they are learning in the classroom.

- **The process for assessing your learning outcomes**

*Maximum characters allowed: 800 (including spaces)*

Students will be encouraged to experience all phases of realizing an actual construction project, involving:

- Use of industry-standard software to design/model and document projects for review
- Construction management of planning implementation, cost estimates and project schedules
- Understanding the terminology and use of construction materials and assemblies in the field
- Communicating verbally and graphically, and coordinating with different disciplines

Students will be required to keep a log of their work, including goals met/not met, with reflection on what they learned as a result of their participation. At project conclusion, students will submit their log to their professor, including a project summary with reflections on objectives which addressed the learning outcomes.

- **The connection between your learning outcomes and student learning**

*Maximum characters allowed: 800 (including spaces)*

Participating students will gain an in-depth understanding of the unique challenges involved in designing and constructing projects that are functional, secure and aesthetically-appropriate for human habitat. In addition, they will gain construction management and carpentry skills.

The broader goal is to supplement traditional classroom activities with active projects that contribute toward meeting established Learning Outcomes for construction and technology related degree programs.

- **Budget**

Please submit a budget that outlines how this money will support your endeavor in terms of the college's mission, vision, and values and connection to student learning.

Download the [budget template](#), complete it and upload your completed spreadsheet below. (see below)

- Additional comments about your budget:

Of the \$4,100 requested for this Endowed Chair, the majority of this will be allocated toward the purchase of either a trailer with sufficient load capacity to support Tiny House construction, or a shipping container for modification to a housing or office unit. The remaining funds may be used for framing materials and/or the purchase

of iPads on which the students can monitor construction progress and document work in the field. Since the project was suggested by Nasser Hedayat, AVP of Career and Workforce Education at Valencia, we will enlist the help of his contacts at CareerSource CFL to leverage donations of materials and technical know-how to accomplish the project. One important goal is to design the structure such that part of the electrical power on the completed building will be provided by solar panels. We intend to follow models of construction programs across the country who have successfully completed similar projects, such as Laney College in Oakland, Fresno State, and locally at Poinciana HS.

**Please note:** *If your proposal is selected, the Chair funds will not be available before July 1, 2016. Make sure all expenses are processed before June 30, 2017.*

If you are planning to attend a conference/seminar/course, etc, please enter the information below:

- **Conference/seminar/course Title:**
- **Start Date:**
- **End Date:**
- **Location:**

**Please note:** *If your proposal is selected, the Chair funds will not be available before July 1, 2016. Make sure all travel expenses are processed before June 30, 2017.*

- Please describe the significant contributions you have made to student learning and to your department, campus, and/or the college in recent years. The selection committee will evaluate proposals based on the

Evaluation Rubric and recipients will be chosen solely on the information provided in the application. *Maximum characters allowed: 2,500 (including spaces)*

My endowed chair in 2014-15 focused on improving teaching techniques for Truss Analysis, and in 2015-16 provided scholarships to allow BCN students and myself to travel on a Study Abroad trip to China in July 2016 to observe renewable energy projects and cultural sites.

Currently serve as Program Chair for Built Environment Programs in BCT, CSET and DDT; duties include advising students, scheduling courses, recruiting and evaluating adjuncts, recruiting Advisory Council members, and monitoring program operations. Additional duties for the Dean of ECPT Division as Discipline Coordinator include coordinating events, lab fees, and equipment/text review & ordering.

#### Faculty

Internship Supervisor for Valencia students interning at construction companies, 2002-present.

Presented 3D Printing demonstrations at Orlando

MakerFaire (Oct 2014), Construction

Careers Days (Jan '14 '15 '16), Learning

Day (Feb 2015), area high school student groups (May 2015 & 2016), and special presentation on 3D printed weapons for 20 law enforcement officers (3 times) for Continuing Education.

Continue to refine Program Learning Outcomes and Assessment

Day activities for 3 AS Degrees.

Service to ECPT Division, West Campus, and Valencia College:

Represented Valencia with Nasser Hedayat at Engineering Tech Forum, Lake

Sumter State College, Mar 2016.

#### Complete

Sabbatical (Fall 2015) travel through Europe to prepare for student Study Abroad trip related to Sustainability; presented travel experience during Learning Day, Feb 2016.

Served on task force to infuse content of New Student Experience course into Intro course in AS program.

Completed construction of Bat House, rolling display boards for ECPT Division, and folding doors for Spring Convocation on West Campus (Mar 2015)

Attended BEST Conference at Lawrence

Berkley and Laney College in Oakland (Jan 2015); assisted with preliminary focus groups to establish new Energy Management degree program at Valencia.

Facilitator for Circles of Innovation track during Destinations (Summer 2014)

Completed SAGE International Faculty Program Leader Training (Fall 2013)

Serve on Valencia college-wide Sustainability Committee (2009-present)

#### Faculty

Development Facilitator

for LifeMap training course (2013-15,  
co-facilitator for Sustainability across  
the Curriculum, and participant in Circles  
of Innovation (2014-15) monthly workshops.

Achieved highest level of Professional Development each period  
since program inception, keeping current with discipline and pedagogy

**Technology**

Please note - items costing more than \$1,000 must be tagged into college inventory, and Valencia-approved vendors must be used. All technology products purchased through Endowed Chair funds are not eligible for refresh by Valencia's Technology Refresh Program. Details for replacing Grant funded equipment can be found at: <http://valenciacollege.edu/oit/tss/technology/techRefresh.cfm>

Item	Description	Quantity	Item Cost	Total Cost
iPads	iPad Air 2 64GB Silver	2	\$ 499.00	\$ 998.00
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
<b>Total Technology</b>				<b>\$ 998.00</b>

**Travel**

Please note: For International Travel you are required to register your trip with the SAGE office at least 30 days prior to departure. Make sure you follow the steps outlined on the SAGE website for international travel at <http://valenciacc.edu/international/studyabroad/staff/internationaltravel.cfm>

Item	Description	Quantity	Item Cost	Total Cost
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
<b>Total Travel</b>				<b>\$ -</b>

**Printing/Duplicating**

Item	Description	Quantity	Item Cost	Total Cost
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
<b>Total Printing/Dup</b>				<b>\$ -</b>

**Materials/Supplies**

Item	Description	Quantity	Item Cost	Total Cost
Tiny House shell	Trailer or Shipping container (approx)	1	\$ 2,900.00	\$ 2,900.00
Framing Materials	Metal studs, paneling	1	\$ 202.00	\$ 202.00
				\$ -
				\$ -
				\$ -
				\$ -
<b>Total Materials/Supplies</b>				<b>\$ 3,102.00</b>

**Personal Stipend (only Category I)**

Item	Description	Quantity	Item Cost	Total Cost
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
<b>Total Stipend</b>				<b>\$ -</b>

**Other**

Item	Description	Quantity	Item Cost	Total Cost
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
<b>Total Other</b>				<b>\$ -</b>

**TOTAL** \$ **4,100.00**

Make sure that the total budget amount matches the award amount.