Pathway Goal: Research, Scholarship, and Creative Activity

Action Item # 1-3

Report:
☑ Mid-Year: December 2016
☐ Year-End: April 2017

Action Item Description:
Develop a research and creative activity infrastructure master plan for:
(1) ensuring space productivity and
(2) development of renovated/new space.

Submitted By:
Name                Department
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Working Group Members:
Name                Department
Jacimaria Batista   Civil and Environmental Engineering and Construction.
John Mercer         School of Allied Health
Helga Watkins       College of Fine Arts

Provide a written overview of the year-long process for your working group. (You may use the “Process and Timeline” information from your action plan, if still applicable.)

2016-2017 Continued development of a financial model for a research building using student fees and F & A. New Engineering building will need to provide some assistance (e.g., biomedical engineering). The year long process for this working group will include assessing research metrics for different colleges and how they are utilized with a financial model for space allocations. The financial model will be base on research efficiency and developing a metrics based model for determining how to maximize the research productivity in existing space. The ultimate goal is to improve not only the research expenditures and funding per square foot, but to also increase scholarship through research in the form of graduates and dissemination of results.
What will your final product be at the end of the year? Such as, what metrics which will be used to assess your progress/achievement, will a report be generated, etc?

We will collate research metrics from various campus constituents in order to define the metrics for research productivity. The Vice President for Research will solicit feedback from each college to determine the best model to implement. In addition, the model will be utilized in multidisciplinary research facilities such as the SEB and HRC to ensure the existing research space is being efficiently utilized. Research expenditures in these two facilities can be utilized as a marker to determine if the research metrics utilized from the College of Science and Engineering result in improved research efficiency.

Describe what has been accomplished so far this year.

Thus far we have received research metrics from the College of Sciences and Engineering. These lists have been provided to the Vice President of Research so that similar lists can be generated in different Colleges. Each college will then define their own research metrics that will be utilized to evaluate efficiency.

Next steps

Continue to work with different colleges to establish their own research metrics and discuss how they will be utilized in the future. Continue to evaluate underutilized research space and how it should be utilized or remodeled to improve function.

You may have additional reference material. Please review the list below and click on the appropriate box to select.

☐ No additional reference material

OR

☒ Potential resources required (if identified)
☐ Any reports generated by this working group (if completed at this time)
☐ Metrics to be used

Any additional information you wish to share.

I have attached the metrics for the College of Science and Engineering as a first step.
Research Metrics by College

**College of Engineering (Dean Venkat)**

- We agreed that three year moving average will be a good way to allow for fluctuation in activity and grant funding.
- Amount and quality of Space allocated should be related to degree productivity.

The following factors can be utilized as metrics for evaluation

**Personnel supported**
- Post-Docs
- Graduate students supervised (MS and PhD)
- Undergraduate researchers in the lab
- Interns
- Research engineers supported

**Scholarly Output**
- Journal
- Conference Proceedings
- Conference presentations
- Citation
- Disclosures
- Patents received
- Licenses received

**Scholarly input?**
- Proposal written
- Grants funded
- Research Expenditure
- Funded use to support students, post-docs and other personnel
- Funds used for buying equipment

**Collaboration**
- Collaborative projects
- Sharing space with others
College of Sciences (Dean Smith)

- Agree that a three year moving average will be a good way to allow for fluctuations in activity and grant funding.
- Amount and quality of Space allocated should be related to degree productivity and grant activity.

The following factors can be utilized as metrics for evaluation

**Personnel supported**
Post-Docs
Graduate students supervised (MS and PhD)
Undergraduate researchers in the lab
Interns and visiting professors
Research faculty

**Scholarly Output**
Journal papers (peer-reviewed)
Citations of publications
IP Disclosures
Patents received
Licenses received

**Scholarly effort**
Proposals written and amount
Grants funded, with major agencies (NIH, NSF, DOE, NASA) primary
Research Expenditures
Direct grant support to graduate student RA’s and undergrads in the lab
Funds used for buying equipment and/or supporting service contracts, technicians, etc.

**Collaboration**
Collaborative projects with other departments, colleges and universities
Sharing space with other PI’s