Pathway Goal: Research, Scholarship, and Creative Activity

Report: Mid-Year: December 2017

Action Item #  1-4

Action Item Description:

Develop plans and strategies for increasing competitive grant applications and entrepreneurial funding opportunities.

Submitted By:

Name                      Department

Working Group Members:

Name                      Department
Kwang Kim                 Mechanical Engineering
Chris Stream             Public Policy & Leadership

Process and Timeline: Provide a brief summary of the year-long process for your working group.

- Continue with recommendations.
- Develop specific plan for junior faculty mentorship, training, workshops of junior faculty.
- Coordinate with VPRED and Graduate College on workshops and resources.
Describe what has been accomplished so far this year.

- We (Kim and Stream) were assigned to serve on this sub-committee in Fall 2017 regarding the overarching subject of “develop plans and strategies for increasing grant proposal activities.” It is our understanding that one of the Top Tier initiatives is for UNLV to achieve AT LEAST $120 M/YEAR of “SPONSORED” RESEARCH EXPENDITURE by 2025.
- We have looked at some data on the status of research grants/contracts activities of UNLV and others.
- The research expenditure was $62.8M in FY2016 (up $14.7M from FY 2015).
- Based upon the data and findings on the status of research grants/contracts activities of UNLV, we lay out the following somewhat naive recommendations:
  1. UNLV may need to provide incoming TT faculty with “early enough training and performance-expectation” for effective teaching, nationally competitive research, UNLV specific-operation tools, and etc.
  2. And/or (since recruitment, training, and retention of top-notch TT faculty can be expensive and time-consuming), UNLV may want to consider hiring of “somewhat established” mid-career associate and/or full professors?
  3. And/or UNLV may want to take a hard look at institutional strengths with an eye firmly focused on the external environment?

Identify next steps.

1. We will produce a reporting document that contains findings and recommendations to the chair of this committee (Dr. Mary Croughan, VPRED).
2. We noted that a good faculty development program started this year is the “VPRED FRMP Junior-Senior Research Mentor Pair” program run by Dr. Liam Frink of the VPRED office, (https://www.unlv.edu/provost/idr/mentoring-groups; shown in section Related Programs).
3. It is our understanding that VPRED plans to develop more workshops, programs, and courses on grant writing. We may ask the VPRED office to provide the TT committee with outcome/output assessment or a short report after 2-3 years of execution (2019 or 2020).

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?

A short power-point presentation material similar to the attachment.

You may have reference material to attach to this report. Select from the list.

☐ No additional reference material

☐ Any material generated by this working group (if completed at this time)

End of Mid-Year Report

Remainder of the report will be completed in May.
2017-18 Accomplishments.

SWOT Analysis: Determine the strengths, weakness, opportunities, and threats presented in the data.

<table>
<thead>
<tr>
<th>Strength(s)</th>
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<tbody>
<tr>
<td>Weakness(es)</td>
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<tr>
<td>Opportunity(ies)</td>
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<td>Threat(s)</td>
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</table>

2018-19 recommendations and next steps

- What does the SWOT analysis reveal?
- What should the goals / activities be for the subcommittee?
- Who should be responsible?

You may have reference material to attach to this report. Select from the list.

☐ No additional reference material

OR

☐ Any material generated by this working group

Additional information to include (optional).

End of Report
Research, Scholarship, and Creative Activity (RSCA)
(FY 2018: Top Tier Subcommittee RSC 1-4 Assignment)
“Develop plans & strategies for increasing competitive grant applications & entrepreneurial funding opportunities”

A short “Mid-Year” report prepared by:

Kwang J. Kim, Faculty of Mechanical Engineering, Howard R. Hugh College of Engineering
Chris Stream, Faculty of School of Public Policy and Leadership, Greenspun College of Urban Affairs

In consultation with:
Office of Sponsored Project, UNLV
James Thomson, Special Advisor to the President for Regional Development, UNLV

Submitted to:
Mary Croughan, Chairs of RSCA
And
Kyle Kaalberg, Special Projects Director

(November 27, 2017)
RSCA Top Tier RSC 1-4 Subcommittee Assignment

DEVELOP PLANS & STRATEGIES FOR INCREASING COMPETITIVE GRANT APPLICATIONS & ENTREPRENEURIAL FUNDING OPPORTUNITIES!!

Some Background Information

➢ Probably the most important goal of the Top Tier initiative is for UNLV to achieve AT LEAST $120 M/YEAR of RESEARCH EXPENDITURE by 2025.

➢ Where UNLV is NOW?

$62.8M in FY2016
$42.0M in FY2015

Source: https://www.unlv.edu/toptier/progress/rsc-progress

2015 Carnegie Study

(credit to Dr. Jim Thompson to reproduce the data)
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<td>100</td>
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\(^1\) Total includes tenured, tenure-track, and non-tenure track instructional faculty.
Sources: Offices of Academic Resources and Human Resources
Some Comparison Data: NSF* and BGU

### Number of NSF CAREER awards “directly” received by UNLV

- Total 11 awards (5 left UNLV and 1 retiring from UNLV): Luke** (1998, the first?), Bae* (now at RPI), Ahmad, Fu* (currently CCNY), Rennels, Sapochak* (at NSF/DMR Division Director), Lee, van Breukelen, Piechota* (currently at Chapman), Hedlund, and Snook* (currently Sheffield UK) (*left UNLV; **retiring/retired from UNLV) – **None after 2009.**
- The NSF/CAREER program is designed for TT faculty to build their academic career via research/education (5 yr. program)

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**Table:**

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<tr>
<th>Zip Code</th>
<th>Institution</th>
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<th># of Active CAREER Awards</th>
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</table>

**NSF fastlane data (11/26/2017)
*No engineering program**
Short and Naive Summary and Recommendation to the RSCA Committee Chair (Dr. Mary Croughan)

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