Subject: Update on Research

Proposed Board Action
No Action required. Information item.

Background Information
Dr. Daniel Flynn, Vice President for Research, will provide the Committee with an update on the plans and programs of the Division of Research, as well as a report of recent highlights.

Implementation Plan/Date
N/A

Fiscal Implications
N/A

Presented by: Dr. Daniel Flynn, 561-297-0268
Research Snapshot at FAU

• Extramural research funding has dropped from $43M/yr to $33M/yr (FY11-FY14)
  – For FAU, $60M - $80M/yr should be expected
  – Limited number of faculty engaging in research
    • Too few applications submitted
    • Need to strategically recruit researcher-intensive faculty
  – Average grant is 2 years in duration
    • Indicates reliance on short term, smaller project grants
    • Need to move to larger, longer-term Federal grants
  – Lack of organized infrastructure to promote research
    • Team Science Programs, Core Facilities/Technology
  – Need to increase capacity for clinical research
    • Patient based studies
    • Clinical Trials
Grant Funding

Award $ Received Quarterly
Fiscal Year 2011-2015TD

FLORIDA ATLANTIC UNIVERSITY
Proposal Submissions

# of Proposal Submissions Quarterly
Fiscal Year 2011-2015TD

<table>
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<tr>
<th>Quarter</th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
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FY11 FY12 FY13 FY14 FY15
Colleges active in applying for grant funding

Proposal Submissions by College
Fiscal Year 2011-2015TD

<table>
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<tr>
<th>College</th>
<th>FY11</th>
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<th>FY14</th>
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Current efforts to increase grant funding

• Increase the capacity of current environment
  – Grant Submissions – Increase quality/quantity
  – Pillars – form programmatic teams
  – Technology – Centralize, organize

• Enrich the research environment
  – Faculty hires – strategic recruitment
  – Programmatic Grants
  – Develop Clinical research mission
Increase the capacity of current environment

• Grant Submissions – Increase quality/quantity
  – Quality
    • Editors available for review of faculty grants
    • Internal review committees
    • External review committees
    • Matching faculty research to funding agencies
    • Grant Writing workshops
  – Quantity
    • Program to foster multiple submissions to different agencies
    • Corporate contracts will be solicited
    • Research-intensive faculty hired
Team Science - Pillars

- Pillars – form programmatic teams
  - Research Visioning Retreats for Pillars
    - Neuroscience – May 29, 2015
    - Healthy Aging – August 13, 2015
    - Environmental Sciences – September 2015
Remote Sensing Pillar

• Faculty will identify Programmatic Areas
  – Health
  – Ocean
  – Rivers and estuaries
  – Transportation
  – Internet of Things
Healthy Aging

• Diseases of aging

• Health and Wellness
  – Health Economics
  – Epidemiology
  – Health Monitoring
  – Risk Assessment

• Rehabilitation
Research Infrastructure

• Technology – Centralize, organize
  – Core Facilities
  – Facilities – wet labs, vivarium
  – Common Equipment areas
  – Technologies shared with partners
Recruiting Research-Intensive Faculty

- Faculty hires – strategic recruitment
  - Hire Pillar Directors
  - Implement co-hiring strategy
  - Allow the Directors to have input on hiring of Chairs, Directors
Programmatic Grants

- Programmatic Grants
  - Larger grants that support the programs in each pillar
  - E.g. Center and Program-Project Grants
    - Environmental Sciences – USGS center of excellence
    - Sea Tech – Programmatic grants from the DoD
    - HBOI
    - Neurosciences
    - Healthy Aging
Clinical Research

• Develop Clinical research mission
  – Develop a clinical trials infrastructure
  – Partner with hospitals
  – Conduct studies that directly benefit and impact patient populations
  – Develop an infrastructure that promotes patient recruitment to funded studies
Goals – FY16-FY17

- Grant submission
  - Increase by 2-fold grant submissions
  - Increase submissions to federal agencies by 2-fold

- Pillars
  - All 4 pillars formed with program areas identified
  - Director hired
  - Co-hiring of 2 FTEs/Pillar/Year with departments

- Technology
  - Strategic core facilities developed and active as cost-centers
    - Statistics
    - CTRU
    - Imaging & Microscopy
    - Molecular core
    - Cell biology core
    - Bioinformatics and Big Data
    - Others, as needed
Goals – FY16-FY17

• Programmatic Grants
  – 1-2 programmatic grants submitted and competitively reviewed

• Clinical Research Mission
  – Hire clinical-research faculty (Medicine, Nursing)
  – Increase the activity of the CTRU by 5-fold
  – Increase the number of patients who participate on clinical studies by 3-fold

• Research Activity
  – Increase research funding by 20%