RESEARCH AND INNOVATION TASK FORCE

CO-CHAIR
Anissa Abi-Dargham, MD
Associate VP for Clinical and Translational Science
Vice Chair for Research in Psychiatry, Renaissance School of Medicine

CO-CHAIR
Jon Longtin, PhD, PE
Associate Dean for Research and Entrepreneurship, College of Engineering and Applied Sciences

MODERATOR
Rose Martinelli
Vice President for Strategic Initiatives
RESEARCH AND INNOVATION TASK FORCE MISSION

Achieving Financial Sustainability

INFORMATION

stonybrook.edu/financial-sustainability

CO-CHAIRS

Anissa Abi-Dargham
Jon Longtin
Staff members from finance, budget, IT, and data experts who will provide resources and advice to the task forces, working groups and leadership.

Each task force will have a project liaison to support coordination, note taking and other project activities.
Project Timeline

**STEP 1**
DEFINITION & DESIGN
OCTOBER 1

1. Define and Finalize Scope
2. Form working groups as needed
3. Define information needs
4. Establish Project Plan

**STEP 2**
OPPORTUNITY IDENTIFICATION
MID DECEMBER 2020

1. Engagement—listening sessions, surveys etc.
2. Group working sessions
3. Initial Opportunity Prioritization

**STEP 3**
ANALYSIS & VALIDATION
END MARCH 2021

1. Cost-Savings/Revenue enhancement
2. Cost/Benefit Analysis
3. Risk Assessment
4. Final Opportunity Prioritization

**STEP 4**
RECOMMENDATIONS
END APRIL 2021

1. Desired Actions
2. Implementation Timeline
3. Metrics
4. Project Plan

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**INDIVIDUAL TASK FORCE RESPONSIBILITIES**

- Ensure Strategic Alignment
- Leveraging Collaboration Opportunities
- Coordinating Support from Technical Support Group
- Providing Regular Updates to SBU Community on Status

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While this process will ultimately deliver strategic recommendations to improve our financial position in the long term, it allows for short-term opportunities to be implemented more quickly.

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**ONGOING TASK FORCE COORDINATION WITH FINANCIAL SUSTAINABILITY STEERING COMMITTEE**

- Ensuring Strategic Alignment
- Leveraging Collaboration Opportunities
- Coordinating Support from Technical Support Group
- Providing Regular Updates to SBU Community on Status
The Research and Innovation Task Force focuses on identifying new opportunities and areas of growth, more effective alignment of resources, infrastructure and new ways to encourage interdisciplinary collaboration and innovation.

Expanding our research portfolio represents a tremendous academic and economic opportunity for Stony Brook and is crucial for our continued participation in the AAU. This Task Force will build on the work outlined in the 2017 Facilitating Researcher Success initiative and the 2020 draft growth strategy.
Who is Involved — TF Members

Co-Chairs

• Anissa Abi-Dargham, MD  
  Associate VP for Clinical and Translational Science  
  Vice Chair for Research in Psychiatry, Renaissance School of Medicine

• Jon Longtin, PhD, PE  
  Associate Dean for Research and Entrepreneurship, College of Engineering and Applied Sciences

Members

• Alan Calder  
  Associate Professor, Physics and Astronomy

• Carol Carter  
  Professor, Dept. of Microbiology and Immunology

• Amy Cook  
  Assoc. Dean for Research and Innovation, CAS

• Liliana Davalos  
  Professor, Ecology and Evolution

• Christina Delorenzo  
  Associate Professor, Psychiatry and Biomedical Engineering

• Petar Djuric  
  Distinguished Professor, Dept. Chair, Electrical Engineering

• Miguel Garcia-Diaz  
  Associate Professor, Pharmacology

• Susan Gasparo  
  Assistant Director, Research Compliance

• Dilip Gersappe  
  Professor and Dept. Chair, Materials Science and Chemical Engineering

• Greg Henkes  
  Assistant Professor, Geosciences

• Arianna Maffei  
  Professor, Neurobiology and Behavior

• Sandeep Mallipattu  
  Chief of Nephrology, Associate Professor, Nephrology and Hypertension Division

• Benjamin Martin  
  Assistant Professor, Biochemistry and Cell Biology

• Nina Maung  
  Associate Vice President for Research, OVPR

• Suparna Rajaram  
  Distinguished Professor, Cognitive Science, Psychology

• C.R. Ramakrishnan  
  Professor and Graduate Program Director, Computer Science

• Kevin Reed  
  Associate Professor, SoMAS

• Robert Rizzo  
  Professor, Applied Math and Statistics

• Clint Rubin  
  Distinguished Professor, Biomedical Engineering

• Fusheng Wang  
  Associate Professor, Bioinformatics/Computer Science

• Stanislaus Wong  
  Professor, Department of Chemistry

• Wei Yin-Rubenstein  
  Associate Professor, Biomedical Engineering

Stony Brook University
What We Have Learned

- The importance of AAU membership and improving our standing within the AAU
- Leveraging the work of the 2017 Facilitating Research Success (FRS) study is fundamental for our research growth
- Engaging the entire campus community toward synergistic, multidisciplinary research will enhance our research growth
- Expanding the SBU research enterprise benefits the entire campus community and the mission of our university
- The importance of culture and morale to achieving research success
Public AAU Rank by Federal Research Expenditures

2015 Federal Research & Development Expenditures
Public AAU Institutions

Amount: $115M
Rank: 32 of 36

2019 Federal Research & Development Expenditures
Public AAU Institutions

Amount: $145M
Rank: 32 of 36

Source: NSF Higher Education Research & Development (HERD) Survey
Public AAU Rank by Federal Research Expenditures per FTE

Source: NSF Higher Education Research & Development (HERD) Survey
## Who Is the Competition?

### Federal Expenditures per FTE, Public AUU Median

<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>University of Minnesota—Twin Cities</td>
<td>$222K</td>
</tr>
<tr>
<td>16</td>
<td>The University of Texas at Austin</td>
<td>$217K</td>
</tr>
<tr>
<td>17</td>
<td>University of Illinois at Urbana-Champaign</td>
<td>$215K</td>
</tr>
<tr>
<td>18</td>
<td>University of Arizona</td>
<td>$207K</td>
</tr>
<tr>
<td>19</td>
<td>Ohio State University</td>
<td>$201K</td>
</tr>
<tr>
<td>20</td>
<td>University of Utah</td>
<td>$192K</td>
</tr>
<tr>
<td>21</td>
<td>University of Iowa</td>
<td>$185K</td>
</tr>
<tr>
<td>22</td>
<td>Michigan State University</td>
<td>$176K</td>
</tr>
</tbody>
</table>

### Federal Expenditures per FTE, Public AAU 3rd Quartile

<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>University of Virginia</td>
<td>$169K</td>
</tr>
<tr>
<td>25</td>
<td>University of California-Irvine</td>
<td>$167K</td>
</tr>
<tr>
<td>26</td>
<td>Rutgers University-New Brunswick</td>
<td>$166K</td>
</tr>
<tr>
<td>27</td>
<td>University of Buffalo</td>
<td>$164K</td>
</tr>
<tr>
<td>28</td>
<td>University of Florida</td>
<td>$154K</td>
</tr>
<tr>
<td>29</td>
<td>Stony Brook University</td>
<td>$145K</td>
</tr>
<tr>
<td>30</td>
<td>Purdue University</td>
<td>$144K</td>
</tr>
<tr>
<td>31</td>
<td>University of Kansas</td>
<td>$138K</td>
</tr>
</tbody>
</table>

Source: NSF Higher Education Research & Development (HERD) Survey
AAU Membership Metrics

- Federal Research Expenditures
- National Academy Membership
- Faculty Awards, Fellowships and Memberships
- Citations
- USDA, State and Industry Research Expenditures
- Doctoral Education
- Postdoctoral appointments
- Undergraduate education
Opportunities

- *Incentivize* and *facilitate* faculty research productivity
- Remove administrative roadblocks/streamline administrative support for research
- Focus on large, multidisciplinary and training grants
- Integrate research infrastructure across East Campus and West Campus
- Build cross-campus collaborations and integration
- Enhance the spirit of entrepreneurship and industrial interactions
- Capitalize on unique geographic and cultural diversity of New York area
Facilitating Research Success (FRS)

• Yearlong study commissioned by upper administration in 2017
• Focus on administrative barriers to research
• Nine task forces, e.g., pre-award, post-award, procurement, human resources, etc.
• 45-page internal report: prioritized needs vs. cost (Nov. 2017)
• March 2020 update report on what has been implemented
• TL; DR: Many no- to low-cost recommendations implemented; higher-cost recommendations were not funded
• FRS is key component of Research and Innovation Task Force; reviewing recommendations for relevance and incorporating into final recommendations
## What’s Next?

<table>
<thead>
<tr>
<th>Working Groups</th>
<th>Co-Chairs</th>
<th>Priorities</th>
</tr>
</thead>
</table>
| **Enhancing Research Productivity and Effectiveness** | Sandeep Mallipattu Surita Bhatia | • Large, multicollaborator grants  
• Training grants  
• Streamlining administrative hurdles |
| **Strategic Research Growth**               | Suparna Rajaram Dilip Gersappe | • Strategic “think tanks” to identify opportunities  
• Develop entrepreneurial activities |
| **Leverage Existing Infrastructure**        | Kevin Reed Glen Itzkowitz  | • Renovation/upgrading of existing space  
• Outfitting new space for research facilities  
• Review current space utilization |
| **Implement FRS Recommendations**           | Rich Reeder Nina Maung     | • Prioritize remaining FRS recommendations and recommend for implementation |
### Survey Update

#### 2,230 Respondents

<table>
<thead>
<tr>
<th>Group</th>
<th>Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>T/TT faculty</td>
<td>452</td>
</tr>
<tr>
<td>NTT faculty</td>
<td>303</td>
</tr>
<tr>
<td>West campus staff</td>
<td>804</td>
</tr>
<tr>
<td>HSC staff</td>
<td>176</td>
</tr>
<tr>
<td>Hospital/ LISVH</td>
<td>377</td>
</tr>
<tr>
<td>Other</td>
<td>118</td>
</tr>
</tbody>
</table>

Overall Response Rate: 13%

#### How closely have you followed the development of Stony Brook’s Strategic Budget Initiative?

- Very closely: 13%
- Somewhat closely: 41%
- Not very closely: 31%
- Not closely at all: 15%

#### How are you getting information about SBU’s budget?

- President’s letters on the Strategic Budget Initiative: 91%
- Virtual campus conversation: 41%
- Achieving Financial Sustainability website: 26%
- Participation in a SBI working group or Task Force: 9%
Thank you for joining us.

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Vice President for Strategic Initiatives

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FAR BEYOND