SSE
Executive Committee
Tulane
UNIVERSITY UPDATES

• Emphasis on AAU metrics
  • Phase I: Federal funding, National Academy Membership, faculty awards & honors, citations
  • Phase II: State & industrial funding, doctoral education, # postdoctoral associates, and undergraduate education

• Other new Deans-new partnership opportunities

• Budget Transparency & ways to increase resources
  • Revenue generating programs
  • Advancement

• Current Planning Projects
  • Paul Hall
UPDATES: FEDERAL FUNDING

• Average for AAU Schools is >$400K per year per faculty* member
• Tulane SSE Average is ~$170K per year per faculty* member (*Tenure track or research active personnel)
• Collaborative funding model can be utilized to grow this number
  • More than 1 single investigator grant per PI
  • Collaborative/Transdisciplinary center model
  • Industrial consortia (joint research with industry, can take advantage of DoD 6.2 level funding, GOALI, etc)
• We now have proposal development personnel: Maureen Shuh
• Funding trip to DC in planning process: Bring me names, jr faculty
NSTC STRATEGIC PLAN GOALS (WILL DRIVE FEDERAL FUNDING)

• Build strong foundation for STEM literacy
• Increase Diversity Equity and Inclusion in STEM
• Prepare the STEM workforce for the future
NSTC PATHWAYS TO GOALS

• Develop and enrich strategic partnerships
• Engage students where disciplines converge
• Build computational literacy
• Operate with transparency and accountability
PLANNING

- Hiring plans must be strategic
- Growth plans must include revenue plans
- Strategic planning must be done at department, center, and school level
  - Department demographics and needs
  - Financial models and planning
  - Revenue generating programs
This program is designed to support the “Big Ideas” initiative that is designed to fund infrastructure between the MRI and MREFC levels.

- The RI – 1 program is in the $6 to $20 million range.

- There will be a follow up RI -2 program that will likely have larger award levels. Q: Can we compete in both?
Two types of proposals – implementation and design. Per the call...

Mid-scale RI-1 "Implementation" projects may have a total project cost ranging from $6 million up to below $20 million. Projects must directly enable advances in fundamental science, engineering or science, technology, engineering and mathematics (STEM) education research in one or more of the research domains supported by NSF. Implementation projects may support new or upgraded research infrastructure. Only Mid-scale RI-1 "Design" projects may request less than $6 million, with a minimum request of $600,000 and a maximum request below $20 million as needed to prepare for a future mid-scale or larger infrastructure implementation project. (Successful award of a Mid-scale RI-1 design project does not imply NSF commitment to future implementation of that project.)
• Key observations from the call
  • These are meant to have broad impact in cutting edge research - again from the call

The science justification in all proposals must demonstrate the importance of the proposed capability relative to that currently available to the general US research community. Investigators whose preliminary proposals are for capabilities similar to those currently available to the U.S. research community are unlikely to be invited to submit full proposals. All proposals must show the project’s value and benefit to the U.S. research community. Examples of benefit include, but are not limited to, open-access time at a facility, access to data products and software, and/or cooperation and sharing of technology with other projects.
NSF MID SCALE RESEARCH INFRASTRUCTURE - 1 (NSF RI -1 NSF 19-537)

• Need to identify investments that will leading to broad impact

• Replenishing existing infrastructure will not suffice; if this can be woven into new models for graduate training that might be a route?

Mid-scale projects are ideal training grounds for the next generation of leaders in technological innovation. To maximize the impact of Mid-scale RI-1 investments, proposals must focus on innovative, potentially transformative research infrastructure that enables a strong component of student training in state-of-the-art infrastructure development and/or use.
Few additional points...

Will have to a real plan in place for management – revisiting of core facilities model?

Institution will have to support staff/maintenance

Could partner with other institutions