

Large Funding Opportunities for SBE Researchers

Arthur Lupia, Assistant Director



Our shared endeavor

- Produce rigorous, precise research that empowers people and improves quality of life.

Evolution

- There is a new appetite for larger projects from SBE.
 - Big Ideas
 - Convergence Accelerators
 - "Midscale" Research Infrastructure.
 - Cross-directorate opportunities



Big Ideas

- SBE leads or co-leads
 - The Future of Work at the Human-Technology Frontier
 - Understanding the Rules of Life
 - Harnessing the Data Revolution

- Big Ideas are regularly producing “center-scale” activities.”



Midscale Infrastructure

- At NSF, “midscale” means \$6-100 million over a five-year period.
- The midscale concept has broad support.
- NSB has recently approved an SBE-centered midscale project.



Convergence Accelerator

- Goal: Accelerate **use-inspired convergence research** in areas of **national importance**.
- Use **partnerships** with non-academic stakeholders.
- Multiple Rounds. Final: **\$5M/year for 5 years**.



Convergence Accelerator. - 2021

- 2021 Tracks
 - Networked Blue Economy
 - Trust and Authenticity in Communications Systems
- Letter of Intent due **May 5**.
- Full Proposal due **June 14**.
- <https://www.nsf.gov/pubs/2021/nsf21572/nsf21572.pdf>



Challenges

- Need a well-conceived idea that advances SBE research.
- Requires “buy-in” from the field.
- Requires professional project management.
- Require operations and maintenance plan.
- Requires demonstrable sustainability.



Cross-Directorate Opportunities

- National Artificial Intelligence (AI) R&D Institutes \leq \$20 m
- Secure and Trustworthy Cyberspace (SaTC) \leq \$10 m
- Cyberinfrastructure for Sustained Scientific Innovation (CSSI) \leq \$5 m



Thank you for your service to
science & society.

Arthur Lupia, Assistant Director

