



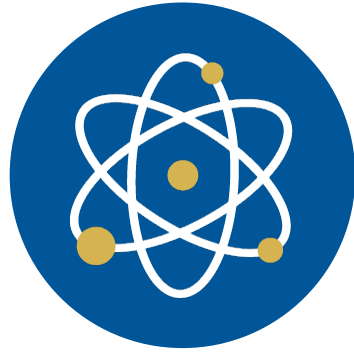
DIRECTOR'S REMARKS

Sethuraman Panchanathan
National Science Foundation

National Science Board Meeting

May 18, 2021





NSB Vision 2030

Research benefits

STEM talent

Geography of innovation

Global S&E community



NSF Vision

Advancing research

Accessibility and inclusivity

Global leadership

Translation, Innovation,
Partnerships (TIP)



Administration Pillars

Pandemic response

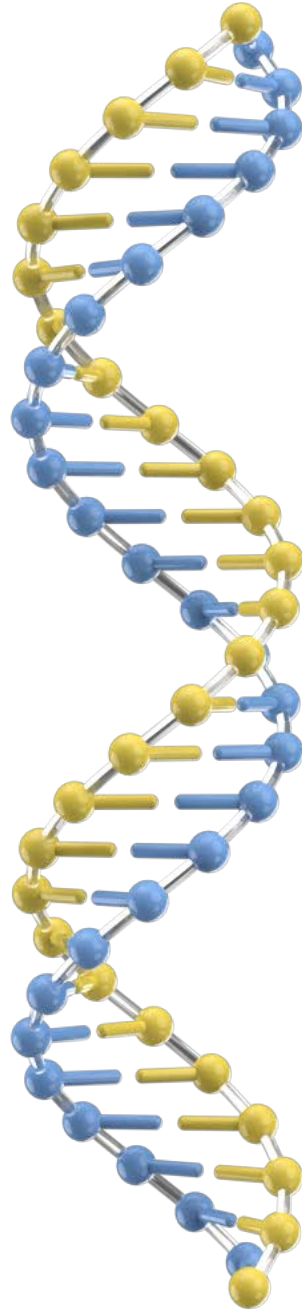
Economic recovery

Racial equity

Climate change



**CURIOSITY-DRIVEN,
DISCOVERY-BASED
EXPLORATIONS**



**USE-INSPIRED,
SOLUTIONS-FOCUSED
INNOVATIONS**

Investment Impact: COVID-19

1960s: POLYMERASE
CHAIN REACTION (PCR)

1980s: EARLY ADDITIVE
MANUFACTURING AWARDS

2000s: CRISPR-CAS9
GENE EDITING

2000s: LSAMP

2020: SEAN

NSF
INVESTMENTS



CURRENT
IMPACTS



VIRUS DETECTION IN
WASTEWATER

3D PRINTING PPE

RAPID COVID-19
TESTING

STRENGTHENING THE
VACCINE DEVELOPMENT
WORKFORCE

RESEARCH-BASED
PANDEMIC RESPONSE
POLICY



American Rescue Plan Response

Most Strongly Affected Groups

MSIs, Vulnerable Institutions

Women Researchers

Underrepresented Groups

Early-career Faculty

Post-docs, Trainees, Fellows

Vulnerable Transition Points

Undergraduate Students

Graduate Students

Post-docs, Trainees, Fellows

Early-career Faculty

Mid-career Faculty



The American Jobs Plan



- Upgrading national research infrastructure
- Increased funding for R&D across government
- \$50B for NSF
- Racial equity & broadening participation
- New Technology Directorate



FY22 President's Budget Request



- \$10.17 billion for NSF, a 20% increase
- Enhance fundamental research and development
- \$1.2B for climate and clean energy related research
- \$100M for broadening participation
- New Technology Directorate
- Construct major research facilities
- Strengthen U.S. leadership in emerging technologies



Congressional Testimony

- Senate Appropriations Subcommittee on Commerce, Justice, Science, and Related Agencies
- House Appropriations Subcommittee on Commerce, Justice, Science, and Related Agencies
- House Committee on Science, Space, and Technology



Bipartisan Support



MRS. SHAHEEN





Robert Aderholt



Dr. Sethuraman Panchanathan

Engagement Highlights



Town Hall with Tribal Nations



Bromley Memorial Event



HBCU Lunch Time Learning Webinar



AAU Presidents and Chancellors Meeting



NAS Annual Meeting: Science in the New Administration



NSF Employee Resource Groups



**NSF IS READY, AGILE
AND ADAPTABLE.**

**NSF WILL STRENGTHEN
AT SPEED AND SCALE.**

THE TIME IS NOW.



Director's Awards

Presented to employees across NSF

36

Awards

197

Recipients



