

70th
**PLATINUM
 ANNIVERSARY**

WHAT DOES NSF DO?

In 2020, the National Science Foundation (NSF) celebrates its 70th anniversary, also known as the "platinum anniversary." As platinum is a catalyst in chemical reactions, NSF is a catalyst for scientific innovation as it is the **only federal agency** to support fundamental research in all fields of science and engineering.

Since its founding in 1950, the independent federal agency has promoted the progress of science, advanced the country's prosperity, welfare, and health, and secured the nation. The agency's focus to **advance knowledge and unearth discoveries for the benefit of society** has charted the course of American innovation.

NSF invests in the studies that underpin our economy, including "**high-risk, high pay-off**" ideas, novel collaborations, and numerous projects that may seem like science fiction today, but will shape our future in meaningful ways.

WHY DOES NSF MATTER?

Since its inception, NSF has been a unique federal agency in the way it operates from the bottom up. Officials work closely with the research community to identify cutting-edge opportunities and monitor the areas of research most likely to result in progress.

**WHAT SCIENCE DOES NSF FUND AT
 STONY BROOK UNIVERSITY?**

Advancing research to help scientists understand the global carbon cycle in the ocean

Accelerating high performance computing

Developing the tools to establish US leadership in Quantum Information Science

Creation of bar codes



Technology to allow a machine to anticipate a human's next movement

Solutions in mobile security

Technology to create the future smart living environment

Technology to defeat cybercriminals

Improving the intersection of linguistics and computer science with the goal of improving technologies in our everyday lives like Siri and Amazon Alexa