

## NSF-WIDE INVESTMENTS

### **Administration Priorities:**

#### **Climate:**

|  |                          |
|--|--------------------------|
| U.S. Global Change Research Program..... | NSF-Wide Investments - 3 |
| Clean Energy Technology.....             | NSF-Wide Investments - 6 |

#### **Economy:**

|  |                           |
|--|---------------------------|
| Advanced Manufacturing.....                    | NSF-Wide Investments - 9  |
| Advanced Wireless .....                        | NSF-Wide Investments - 12 |
| Artificial Intelligence.....                   | NSF-Wide Investments - 14 |
| Biotechnology .....                            | NSF-Wide Investments - 18 |
| National Nanotechnology Initiative .....       | NSF-Wide Investments - 21 |
| Networking and Information Technology R&D..... | NSF-Wide Investments - 27 |
| Quantum Information Sciences.....              | NSF-Wide Investments - 32 |

### **NSF Research Big Ideas:**

|   |                           |
|---|---------------------------|
| Harnessing the Data Revolution for 21 <sup>st</sup> -Century Science and<br>Engineering ..... | NSF-Wide Investments - 35 |
| The Future of Work at the Human-Technology Frontier.....                                      | NSF-Wide Investments - 37 |
| Navigating the New Arctic .....   | NSF-Wide Investments - 40 |
| Understanding the Rules of Life.....  | NSF-Wide Investments - 43 |
| Windows on the Universe.....  | NSF-Wide Investments - 45 |

### **NSF Enabling Big Ideas:**

|  |                           |
|--|---------------------------|
| Growing Convergence Research.....  | NSF-Wide Investments - 47 |
| Inclusion across the Nation of Communities of Learners of<br>Underrepresented Discoverers in Engineering and Science ..... | NSF-Wide Investments - 49 |
| Mid-scale Research Infrastructure .....  | NSF-Wide Investments - 52 |

### **Ongoing Major FY 2021 Investments:**

|   |                           |
|---|---------------------------|
| NSF Innovation Corps .....              | NSF-Wide Investments - 55 |
| NSF Centers.....                        | NSF-Wide Investments - 57 |
| Secure and Trustworthy Cyberspace ..... | NSF-Wide Investments - 67 |
| Selected Crosscutting Programs .....    | NSF-Wide Investments - 70 |
| Spectrum Innovation Initiative .....    | NSF-Wide Investments - 73 |

### **STEM Education and Workforce:**

|  |                           |
|--|---------------------------|
| Improving Undergraduate STEM Education .....   | NSF-Wide Investments - 75 |
| Major Investments in Science, Technology, Engineering,<br>and Mathematics (STEM) Graduate Students<br>and Graduate Education ..... | NSF-Wide Investments - 77 |

