NSF awards 2016 Graduate Research Fellowships

The National Science Foundation (NSF) has named 2,000 individuals as this year’s recipients of awards from the Graduate Research Fellowship Program (GRFP).
"The Graduate Research Fellowship Program is a vital part of our efforts to foster and promote excellence in U.S. science, technology, engineering and mathematics by recognizing talent broadly from across the Nation," said Joan Ferrini-Mundy, NSF assistant director for Education and Human Resources. "These awards are provided to ...
NSF funds new $5.9 million Arctic data center at the University of California, Santa Barbara

The National Science Foundation (NSF) has made a five-year, $5.9 million award to a national partnership, led by the National Center for Ecological Analysis and Synthesis (NCEAS) at the University of California, Santa Barbara, to develop and curate a new archive for Arctic scientific data as well as other related research documents. When the new archive, the NSF Arctic Data Center, is launched later this month, it will serve as the NSF Arctic research community's primary repository ...

Community college teams propose ways to improve natural resource sustainability

The National Science Foundation (NSF), in partnership with the American Association of Community Colleges (AACC), has named 10 finalists for the second annual Community College Innovation Challenge, which fosters the development of crucial innovation skills among students. The Community College Innovation Challenge (CCIC) calls on students enrolled in community colleges to propose innovative solutions based in the fields of science, technology, engineering and mathematics (STEM) in ...

Flint water crisis: For young engineers, a lesson on the importance of listening

Sheldon Masters, a former Virginia Tech Ph.D. student, says he used to think scientists and engineers should be like robots: "Emotionally unattached."
But after attending a class entitled Engineering Ethics and the Public: Learning to Listen with dozens of other young engineers at his university, he found his perspective changed.
"After this work," he said. "I realize feelings like ...
NEON

The National Ecological Observatory Network (NEON) is an NSF-funded large facility project. NEON is a continental-scale research platform for discovering and understanding the impacts of climate change, land-use change and invasive species on ecology. Learn about NEON and NEON-related research.

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National Science Foundation invests in a clean water future

Today, at the White House Water Summit, the National Science Foundation (NSF) joins other federal agencies to emphasize its commitment to a sustainable water future. Access to affordable clean water is vital for energy generation, food cultivation and basic life support. With drought pressure and population demands, water is an increasingly precious resource. The California ...

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Acoustic technique presents fresh take on water treatment

When oil and gas are extracted from the earth, water also comes to the surface. Known as produced water, it contains naturally occurring hydrocarbons, salt, bacteria, radioactive material and other compounds, as well as any chemical additives used to ease extraction. Each year, the U.S. alone generates more than 21 billion barrels (approximately 900 billion gallons) of produced water from oil and gas extraction, ...

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NSF INCLUDES

NSF INCLUDES is a multi-year initiative designed to help develop collaborative alliances and partnerships in order to create pathways for more people to become scientists and engineers.

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Cleaner water, cleaner future: Engineering new water tech

Engineering researchers are creating new ways to handle drought, chemical spills and water purification. Imagine a clean water future.

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Human-driven carbon release rate unprecedented in past 66 million years

The earliest measurements of Earth's climate using thermometers and other tools start in the 1850s. To look further back in time, scientists investigate air bubbles trapped in ice cores, expanding the scope of climate records to nearly a million years. But to study Earth's history over millions of years, researchers examine the chemical and biological signatures in deep-sea sediments. New research published today in the journal *Nature Geoscience* by geoscientist ...

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On World Water Day, scientists peer into rivers to answer water availability questions

The following is part nine in a series on the National Science Foundation's Critical Zone Observatories (CZO) Network. Parts one, two, three, four, ...

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Critical Zone Observatories help U.S. plan for the future

Scientists work with farmers to study land use impact, with eye on food and water security, environmental sustainability, ....

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Factors that can combine to produce a Zika virus outbreak are expected to be present in a number of U.S. cities during peak summer months, new research shows. The *Aedes aegypti* mosquito, which is spreading the virus in much of Latin America and the Caribbean, will likely become increasingly abundant across much of the southern and eastern United States as the weather warms, according to a new study led by mosquito and disease experts at the National Center for Atmospheric ...