

Competition Space

Menu

NIST Summer Undergraduate Research Fellowship (SURF) Program 2017-NIST-SURF-01

Internal Submission Deadline: Sunday, February 5, 2017
ADD TO CALENDAR

Print

Administrator(s): Ryan Champagne (Owner), Grants Development Office of Research, Mary Grace Murray, Vice Provost - Research Office of the

Category: Undergraduate Research Funding

Award Cycle: Annual

Discipline/Subject Area: biology, chemistry, computer science, engineering, materials science, mathematics, nanoscale science, neutron research, and physics

Maximum Applications Allowed Per Applicant: 1

Program Guidelines: <http://www.nist.gov/surfgaithersburg/upload/2016-Approved-SURF-Federal-Funding-Opportunity2.pdf>
FFO: (<http://www.nist.gov/surfgaithersburg/upload/2016-Approved-SURF-Federal-Funding-Opportunity2.pdf>)

More information: http://pivot.cos.com/funding_opps/77182 (http://pivot.cos.com/funding_opps/77182/)

Funding Organization's Deadline: Wednesday, February 15, 2017 at 4:59 PM

Description:

The SURF Program will provide research opportunities for undergraduate students to work with NIST scientists and engineers, to expose them to cutting-edge research, and to promote the pursuit of graduate degrees in science and engineering.

NIST is one of the nation's premiere research institutions for the physical and engineering sciences and, as the lead Federal agency for technology transfer, it provides a strong interface between government, industry and academia. NIST embodies a science culture, developed from a large and well-equipped research staff that enthusiastically blends programs that address the immediate needs of industry with longer-term research that anticipates future needs. This occurs in few other places and enables the Center for Nanoscale Science and Technology (CNST), Communications Technology Laboratory (CTL), Engineering Laboratory (EL), Information Technology Laboratory (ITL), Material Measurement Laboratory (MML), NIST Center for Neutron Research (NCNR), and Physical Measurement Laboratory (PML), to offer unique research and training opportunities for undergraduates, providing them with a research-rich environment and exposure to state-of-the-art equipment.

The SURF Program provides an opportunity for the NIST laboratories to encourage outstanding undergraduate students to pursue careers in science and engineering. The objective of the SURF Program is to build a mutually beneficial relationship among the student, the academic institution, and NIST. The SURF Program is conducted in English and will provide research opportunities for students to work with NIST scientists and engineers, to expose the students to cutting-edge and world-class research, and to promote the pursuit of graduate degrees in science and engineering. It is expected that the students participating in the SURF Program will have a proficiency in writing and speaking English, the ability to live and work with others, a commitment to honesty, and an interest in learning measurement metrology and using their own innovativeness to develop new science.

SURF students will have the opportunity to work one-on-one with NIST scientists and engineers. In addition, SURF students may have opportunities to voluntarily participate as subjects in minimal-risk NIST research experiments, for example, an evaluation of the quality, whiteness, and color rendering of different correlated color temperatures of solid-state lamps in the NIST Spectrally Tunable Light Facility. It is anticipated that successful SURF students will move from a position of reliance on guidance from their NIST research advisors to one of research independence during the program period. One goal of the SURF Program is to provide

opportunities for our nation's next generation of scientists and engineers to engage in scientific research of the highest caliber at NIST, especially in ground-breaking areas of emerging technologies. This carries with it the hope of motivating individuals to pursue Ph.D.s in biology, chemistry, computer science, engineering, materials science, mathematics, nanoscale science, neutron research, and/or physics, and to consider research careers.

Each undergraduate student nominated to participate in the SURF Program from the applicant college or university must meet all of the following requirements:

- 1) Be a U.S. citizen or permanent U.S. resident.
- 2) Commit to eleven (11) full continuous weeks, or nine (9) full continuous weeks for the nine (9) week program, (Monday through Friday) from 8:30 a.m. to 5 p.m., during the summer of 2017, to participate in the SURF Program. Students are expected to participate in SURF Boulder and SURF Gaithersburg through the last day of the program, August 4, 2017.
- 3) Be a currently registered undergraduate at the applicant university or college in the U.S. or its territories with a scientific major at the time of application. Graduating seniors may apply for the program but must be a registered undergraduate at the time of application.
- 4) Is considering pursuing a graduate degree (M.S. or Ph.D.). Students with biology, chemistry, computer science, engineering, materials science, mathematics, nanoscale science, neutron research and/or physics majors are always encouraged to apply. There may also be research opportunities for students with other majors. Refer to the evaluation criteria and selection factors for additional recommendations.

Application Tools

[Apply](#)

Competition Files

NIST Checklist (/PlatformServicesV2/Commons/getDocument/SURF-Application-Checklist(1).pdf?documentName=052b64d4-2d8a-4b7e-8edf-9cf40b8b2d63.pdf&applicationId=7)

NIST Application (/PlatformServicesV2/Commons/getDocument/Student-Application-Form-Fillable.pdf?documentName=448e4fcc-c8b1-497d-96a3-fb3f1052def2.pdf&applicationId=7)



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