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Social Media Committee

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# 2023 NIST Internship Opportunity Summer Undergraduate Research Fellowship (SURF)

USMA Outreach Committee

**Elizabeth Benham**  
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# 2023 NIST SURF



Applications (<https://www.nist.gov/surf>)



- **Open:** 21 November 2022
- **Closes:** 1 February 2023
- US citizens and US permanent residents enrolled as undergraduate students at US colleges or universities. Student with an F1 Visa (a.k.a. student visa) is NOT eligible for the program.

## NIST (Gaithersburg and Boulder)

- ~150 students participants per year (Guest Researcher, not Federal Employee)
- Competitive (~1 out of 3 applicants receive offer)
- In-person
- 11-week appointment (22 May 2023 to 3 August 2023)
- \$6600 stipend
- In-person participants may also receive lodging and travel allowance

## Office Weights and Measures 2023 SURF Project Proposal Highlights

### Laboratory Metrology Proficiency Testing and Training Resource Development Project

(Research Advisor: [Isabel Chavez-Baucom](#))

### STEAM Training and Education Outreach Resource Development

(Research Advisor: [Elizabeth Benham](#))

Candidate will:

- Develop OWN Proficiency Testing (PT) Program quality and statistical analysis tools, program and implement a PT tracking and process management scheme with companion user instructions, improve the PT artifact inventory management process (Access database) that is used by national PT program coordinators and participants to support calibration laboratory [Recognition](#) and [Accreditation](#) requirements.
- Collaborate to develop measurement science training resources, including [video](#) scripts and storyboards. Videos may include: PT Quality Manual ([NISTIR 7214](#)) and PT Test Policy and Plan ([NISTIR 7082](#)) topics, such as statistical equations and Pass/Fail criteria; or laboratory operating procedures and techniques, such as care and handling of state standards ([GLP 3](#)), understanding factors affecting weight operations ([GMP 10](#)), and standard operating procedures ([SOP 8](#)); and/or general “Welcome to Training” topics that support WOMEN’s [IACET accredited Training Program](#).
- Serve on an OWN working group exploring new modes of training service delivery. Note that this project will be hosted as an in-person (Gaithersburg campus) workplace experience only.

Candidate will:

- Apply [K-12 instructional techniques](#) to develop new and enhance existing classroom lesson plans and companion videos.

Topics may explore [U.S. metrication](#), applying the International System of Units (SI), communicating [base and derived unit](#) relationships ([NIST SP 1247](#)), using [SI prefixes](#) to modify unit magnitude, estimating temperatures in degree Celsius, using a metric ruler ([NIST SP 376](#)) to calculate length, area and volume, selecting scientific glassware, reading a meniscus, measurement in [sports](#), [metric system cooking](#) and recipe design.

- Be responsible for developing unique graphic design assets, training video script writing, storyboarding, and editing support, performing public presentations for adults and school age audiences.

Typical tasks may include reviewing current outreach and technical publications, websites, and presentations for design and content improvements, copywriting, and updating OWN website assets for entry into the NIST *Educational STEM Resource Registry* ([NEST-R](#)).



# DISCUSSION TOPICS



- **USMA Programs**
  - Scholarships/Awards
  - CMS/CAMS Program
  - Science Fair Program
  - Metric Today Newsletter
  - Website/Shop
  - Social Media
- **Metrication Topics**
  - Education/Training/Outreach
  - Going Metric Pays Off – Trade & Commerce
  - Government – Laws & Regulations