

**TITLE:** Fit-for-Purpose Cellular Measurements for Process Analytical Technologies (U.S. Citizens preferred)

### Overview

The Material Measurement Laboratory of the National Institute of Standards and Technology is seeking qualified persons (U.S. Citizens preferred) to contribute to cutting-edge research projects aimed at developing process analytical technologies to support cell-based manufacturing and cell-based assays. A successful applicant will join a dynamic, multidisciplinary team working with cutting-edge cell analytical technologies within the NIST Biomaterials Group to address critical cell measurement challenges in biotechnology. They will contribute to international standardization efforts in cell characterization, and the development of reference strategies to support reproducibility for cell culture and cell-based assays.

### Duties

- Conduct mammalian cell culture
- Design and execute cell characterization experiments, develop and conduct data analysis workflows including statistical analyses, and interpret results
- Ensure that protocols and results are well-documented
- Present findings at meetings and conferences and prepare manuscripts
- Collaborate with stakeholders and multidisciplinary teams

### Required Skills, Expertise and Qualifications

- Ph.D. in biomedical engineering, molecular biology, biochemistry, or a related field
- 3+ years of experience in mammalian cell culture with 1+ year of specialized experience in adherent cells
- 3+ years of experience in mammalian cell health assays (e.g., viability, apoptosis, DNA damage)
- 3+ years of experience in mass spectrometry with 1 year of specialized experience in cell-based metabolomics
- 3+ years of experience in cytometry (e.g., image-based, flow-based)
- Proficiency in operating advanced cell analysis instrumentation and developing protocols
- Strong oral and written communication skills
- Demonstrated ability to lead research efforts to successfully achieve research goals

### Other Desirable Qualifications:

- Experience with cell process analytical technologies (e.g., real-time, label-free, non-destructive)
- Familiarity with statistical analysis tools and design of experiment strategies

**Employment Terms:** This opportunity is to be an associate researcher in the Biosystems and Biomaterials Division at NIST for a term of two (2) years, with the potential to renew and/or pursue longer term federal employment if opportunities arise. Associate researchers are NOT Federal Employees, but they work aside NIST researchers and with NIST's often world class instrumentation. Relocation expenses will not be provided.

**Salary:** \$80,000 to \$110,000

How to express interest: Persons (U.S. Citizens Preferred) who meet all of the required qualifications and who would be interested in taking this position are invited to express their interest by sending an email that briefly describes their qualifications along with a CV to 644assoc@nist.gov. US Citizens should note “US Citizen” and the opportunity title in the email subject line. All others should note “Non-US Citizen” and the opportunity title in the email subject line.