

**TITLE:** Research Scientist for Cell-free Expression System Metrology (U.S. Citizens Preferred)

**Overview:** The Materials Measurement Laboratory of the National Institute of Standards and Technology is seeking qualified candidates (U.S. Citizens preferred) to support the Cellular Engineering Group and NIST Engineering Biology Program, by leading projects to develop measurement assurance for cell-free expression systems from diverse samples, including reconstituted and microbial samples. Leads the development of characterization assays for cell-free systems. Assists automating reagent preparation, cell-free reaction assembly, and characterization, using the NIST Living Measurement Systems Foundry (LMSF) and other laboratory automation. Analyzes experimental and simulation data, including uncertainty and other statistical analyses. Documents and manages protocols, data, and analyses. Regularly presents and discusses progress with the larger organization.

**Duties:**

- Leads, plans, and carries out difficult and complex assignments in cell-free expression systems with limited supervision.
- Develops new methods, approaches, and procedures in cooperation with coworkers or advisors.
- Completed work has a sound overall approach and effectively meets requirements.
- Communicates effectively with peers and stakeholders to plan share work outputs.

**Required Skills, Expertise and Qualifications:**

- A Doctoral degree in chemical engineering, bioengineering, cell biology, chemistry, physics, synthetic biology, or a related field.
- Demonstrated knowledge of cell biology, molecular biology, microbial culture, reconstituted and lysate-based cell-free expression systems, and synthetic/engineering biology.
- Demonstrated leadership and management of technical projects and programs.
- 5 years of relevant experience.
- Strong oral and written communication skills.

**Employment Terms:** This opportunity is to be an associate researcher in the NIST for a term of 1 years, with options to renew. Associate researchers are NOT Federal Employees, but work aside NIST researchers and with NIST's often world class instrumentation. Relocation expenses will not be provided. U.S. Citizens hired into associate positions may have the opportunity to seek longer term Federal Employment.

**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](mailto: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.