

**TITLE: Computational Micromagnetics**

The Information Technology Laboratory of the National Institute of Standards and Technology is seeking a Postdoctoral Associate Researcher with expertise in micromagnetics simulations. This researcher will create and analyze numerical simulations of magnetic components with the goal of designing and integrating novel power supplies into semiconductor chips and packaging.

Duties:

- Collaboration: Partner with domain experts to translate scientific needs into technical software requirements.
- Micromagnetics Simulation: Build numerical simulation tools to model relevant prototypes.
- Data Analysis: Analyze numerical results to inform model-based design considerations.
- Technology Transfer: Communicate results via technical publications and conference presentations.

Required Skills, Expertise and Qualifications:

- A PhD in Applied Mathematics, Physics, or a related field.
- Familiarity with ODEs, PDEs, stiff systems, Maxwell's equations.
- Experience coding in C++, MATLAB, Python.
- Ability to work with experimentalists.
- Strong oral and written communication skills.

Employment Terms: This opportunity is to be an associate researcher in the NIST Applied and Computational Mathematics Division for a term of 1 year, with options to renew annually and/or pursue longer term federal employment. Associate researchers are NOT Federal Employees, but they work aside NIST researchers. Relocation expenses will not be provided.

Salary: \$82,000-\$87,000

How to express interest: U.S. Citizens who meet all required qualifications are invited to express their interest in the position by sending a current CV to Michael Donahue via michael.donahue@nist.gov