

Post-Doctoral Fellowship Opening: Joint Project between NIST and AMGEN

The National Institute of Standards and Technology (NIST) and AMGEN will be jointly seeking a post-doctoral researcher to work on collaborative research focused on development and implementation of NMR methods for fingerprinting the Higher Order Structure (HOS) of biopharmaceuticals. The post-doctoral researcher will be a NIST employee but will be expected to carry out part of his/her research work at AMGEN.

Project description: The development of new methodologies for thorough comparison of HOS has been an area of intense interest in the biopharmaceutical industry. Nuclear magnetic resonance (NMR) is uniquely suited to characterize HOS of protein biopharmaceuticals, as representative spectra contain information about numerous components of HOS. While NMR methods are well established for smaller proteins, translating these methods to larger proteins, such as monoclonal antibodies (mAbs), is much more challenging. This project will focus on the development and harmonization of one-dimensional (1D) and two-dimensional (2D) NMR-based methods for use in NMR fingerprinting and comparison of mAb HOS.

Qualifications: Candidates with recent PhD degrees in chemistry, biophysics or related fields are encouraged to apply. A strong background in NMR is preferred, and experience with protein biochemistry and structural biology would be advantageous.

Salary and benefits: Commensurate with qualifications.

Citizenship requirement: Interested applicants must have US citizenship, since the successful candidate will be a US federal government employee.

Application procedure: Please send a CV and cover letter and contact information for at least three references to john.marino@nist.gov.

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