

Post-Doc Position in Novel Technologies for Mechanistic Understanding of Disease IIN Northwestern University

Description:

Applications are invited for a Postdoctoral Research Associate in the area of cell and tissue analysis, from molecular to mechanical, at the International Institute for Nanotechnology at Northwestern University. The candidate will interact closely with investigators from the schools of Engineering and Medicine in the context of applications ranging from mechanistic understanding of disease (e.g., cancer, Alzheimer's), and cell/Tissue therapies. The position will involve research at the intersection of engineering and medicine.

Desired Qualifications:

1. Ph.D. in engineering or related discipline
2. Extensive experience with at least two of the following:
 - Hands-on experience with cell culture, multiple molecular biology/biochemistry methods (plasmid preparation, transfection, CRISPR/Cas9, PCR, western blot, next-gen sequencing, FACS) and optical/confocal microscopy
 - Working knowledge of bio-tools and their principles
 - Machine Learning for image processing
 - Microfluidic platforms and plasmonic sensing
3. A good record of publications
4. Strong verbal and written communication skills
5. Eligibility to work in the US (i.e., J1 visa, OPT or green card)

Why this is a great opportunity:

- Unique experience at a top US university with top programs in mechanics and materials science and engineering
- Access to first-class research facilities
- Be part of a highly collaborative and entrepreneurial environment
- Interaction with leading Nanotechnology researchers at Northwestern and Argonne National Laboratory
- Many cultural and recreational activities at the university and Chicago area

To apply: Interested candidates should email a CV (including list of publications with journal impact factors), cover letter describing research experience and interests, eligibility to work in the US, and the names and email addresses of three references to Professor **Horacio D. Espinosa** (espinosa@northwestern.edu).

Northwestern University is an equal opportunity, affirmative action educator and employer.