



Northwestern
University

Postdoctoral position in materials engineering for medical applications

A postdoc position is available in the lab of Prof. Shih-Ting (Christine) Wang in the Department of Materials Science and Engineering at the Northwestern University, Evanston, Illinois, United States. The position is fully funded.

The Wang lab is an interdisciplinary biomaterials lab at Northwestern University. We are interested in leveraging sequence-defined biomolecules to generate precision materials to probe and intercept biological problems and for medical applications. We use a highly interdisciplinary approach, including chemical synthesis, biomolecular and biomaterials engineering and advanced materials characterization to generate new enabling technologies. Specific medical problems we aim to solve include but not limited to:

- 1) Interception of lung fibrosis (with Pulmonary and Critical Care, Northwestern University)
- 2) Continuous monitoring of skin disease (with Querry Simpson Institute, Northwestern University)
- 3) Smart antigen detection

As such, we are looking for applicants that are attracted by this research. The applicants are expected to be motivated to complement their skillsets and broaden their horizons to reach their intended career goals.

Qualified postdoc applicants should have completed a relevant Ph.D. in Chemistry, Materials Engineering, Bioengineering/Biomedical Engineering, or equivalent. The position requires good knowledge in synthetic chemistry and/or synthetic biology as it entails synthesis and biological evaluation of the materials. Computational and data analysis skills are a plus.

Good English communications skills including both written and oral are essential. The successful candidate will also be part of the Feinberg School of Medicine at Northwestern University, which offers state-of-the-art research infrastructure, diverse environments, and close connections to the medical community.

A start date from February 1, 2025 is ideal but negotiable upon mutual agreement. Initial appointment will be 1 year, renewable.

Applicants should include their complete CV, a paragraph of research interests, a paragraph of research experiences related to the field or study, and 2-3 contact details for references. For more information, please contact Prof. Christine Wang by email: stwang@northwestern.edu