Postdoctoral scientist: Sensor Research

The postdoctoral researcher candidate will carry out research on a NSF-funded project focusing on developing integrated silicon photonics based sensors for point-of-interest soil micronutrient detection, and water quality measurement. Our group has developed an integrated silicon photonics platform for sensing applications, and the candidate will be primarily responsible for further developing functionalization materials for analyte specificity and selectivity and their integration with the photonic devices. Applicants with a Ph.D. degree from a range of areas including Engineering, Chemistry, Physics, and Biology are welcomed. Hands-on experience in nanofabrication and surface modification/functionalization are required. Familiarity with peptide synthesis, measurement and computing software (Labview, Matlab, or other equivalent software) and optical characterization is a plus.

The postdoctoral researcher will work at the Institute for Molecular Engineering at the University of Chicago (https://ime.uchicago.edu/) and the Center for Nanoscale Materials at Argonne National Laboratory (<https://www.anl.gov/cnm>) under the supervision of Prof. Supratik Guha (http://guha-lab.ime.uchicago.edu/People/guha.html) and Dr. Xufeng Zhang (<https://www.anl.gov/profile/xufeng-zhang>).

Highly motivated candidates should send an application package to Prof. Supratik Guha (guha@uchicago.edu) or Dr. Xufeng Zhang (xufeng@uchicago.edu). Please include a cover letter, a full CV, names and contact information for 3 references. Consideration of candidates will start immediately until the position is filled.