Postdoctoral Fellow in Electronic Textiles

A Postdoctoral Fellow is being sought to conduct research in the growing, interdisciplinary area of electronic textiles. With the emergence of the Internet of Things and the ubiquity of textiles (clothing, tents, window blinds, furniture, etc.), incorporating electronic functionality into textiles is a massive opportunity that is receiving an increasing amount of interest worldwide. In this project, printable, flexible solar cell technologies will be incorporated into textiles as seamlessly as possible such that the original characteristics of the textile (breathability, softness, stretchability, etc.) are retained. The Postdoctoral Fellow will work in two laboratories, one with expertise in e-textiles and printable flexible electronics (supervised by Prof. Irene Goldthorpe in the Department of Electrical & Computer Engineering at the University of Waterloo) and the other with expertise in solution-processed solar cells (supervised by Prof. Wanli Ma in the Institute of Functional Nano & Soft Materials at Soochow University).

The position is funded through the Collaborative Academic Training Program for Post-doctoral Fellows in Nanotechnology, which is a joint initiative between the Institute of Functional Nano & Soft Materials (FUMSOM) at Soochow University (China) and the Waterloo Institute for Nanotechnology (WIN) at the University of Waterloo (Canada).

Position details

Duration: Up to 3 years
Start date: Summer or fall 2020 (there is flexibility)
Salary: ~$45k
Deadline to apply: None. Applications will be reviewed on a rolling basis

Qualifications

- PhD in Electrical Engineering, Materials Engineering, or a related field
- Experimental experience in the areas of electronic materials, electronic devices, nanotechnology and materials and device characterization.
- Excellent English language skills required (Chinese language skills are an asset but not required)
- The ability and interest to work in both China (minimum of one year) and Canada

How to Apply

Interested candidates should email Prof. Goldthorpe at igoldthorpe@uwaterloo.ca. Please include a curriculum vitae and a cover letter stating how your experience makes you a good fit for this role.