The University of Utah

Department of Electrical and Computer Engineering

The University of Utah
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http://terahertzoptoelectronics.org/

Job Title: Post-Doctoral Fellow

Job Description:

A Post-doctoral position is available for highly motivated candidates with a strong background on device fabrication to join Prof. Sensale-Rodriguez Terahertz Optoelectronics laboratory. In this laboratory, one of our main research areas consists on developing optoelectronic devices in atomically-thin materials such as graphene, transition metal dichalcogenides, complex oxides, topological insulators, and their heterostructures. We are currently looking in particular for applicants with significant experience in: (a) fabricating stacks of 2-D materials from mechanical exfoliation, or (b) CVD growth of 2-D materials such as Graphene, hBN or MoS2.

Job Requirement:

Applicants should hold a PhD degree at the time of employment. Significant experience in one or both of the aforementioned areas is required.

Contact:

Full applications including curriculum vita , a brief summary of future research interests and accomplishments, selected reprints of publications, and expected availability date should be submitted to Prof. Berardi Sensale-Rodriguez (berardi.sensale@utah.edu)

About the Terahertz Optoelectronics Laboratory:

We are a research group in the Department of Electrical and Computer Engineering at the University of Utah, located in beautiful Salt Lake City, Utah. We develop optoelectronic devices in atomically-thin materials such as graphene, transition metal dichalcogenides, complex oxides, topological insulators, and

their heterostructures. We also study non-traditional transport phenomena such as electron-plasma waves and resonant-tunneling, and harness these into device applications. Our main research interest is on the terahertz and far-infrared regions of the spectrum, but we are also interested in exploring materials and devices at RF, mid-IR, and UV frequencies. Our research is funded by the National Science Foundation (NSF) and the Office of Naval Research (ONR).

About the University of Utah:

Fueled in part by strong support from the State of Utah, the Department of Electrical and Computer Engineering has experienced significant recent growth. Our graduate program rankings in the past five years have increased at one of the fastest rates of any program in the nation, and we expect our rapid ascend to continue. The Department currently has 30 tenured and tenure-track faculty, approximately $10M in annual research expenditures and approx. 100 doctoral students. Current ECE faculty have founded or co-founded 15 companies, consistent with the unique entrepreneurial spirit at the University of Utah, which has been consistently ranked as one of the top schools for startup creation. The Department attracts world-class students and faculty. Salt Lake City has an outstanding quality of life and natural beauty; seven world-class ski resorts are within a one-hour drive, and Utah has five national parks.