



Job Opening for a Postdoctoral Fellow

The NanoPower Research Laboratories at Rochester Institute of Technology is seeking qualified individuals for a position at the ranks of Research Scientist or Postdoctoral Fellow, dependent on experience. The individual will be primarily responsible for conducting research related to III-V based high efficiency photovoltaics as well as development of devices for integrated photonics. Material systems of interest include Arsenic, Phosphorous and Antimony based materials and device structures as well as III-V based quantum wells, wires and dots. Current photovoltaics projects include highly mismatched materials for multi-junction solar cells, integrated photon management in multijunction photovoltaics, development of low cost substrates materials for III-V epitaxy, radiation hardening of III-V devices, novel materials system for tandem solar cell devices as well as materials development for advanced solar cell concepts involving intermediate band and hot carrier effects. The individual will also support the NPRLs role in the national integrated manufacturing center AIM Photonics, in particular development of semiconductor optoelectronic materials and devices for Si integrated photonics.

Founded in 1829, Rochester Institute of Technology is a privately endowed, coeducational university with nine colleges emphasizing career education and experiential learning. With approximately 15,000 undergraduates and 2,900 graduate students, RIT is one of the largest private universities in the nation. Rochester, situated between Lake Ontario and the Finger Lakes region is the third largest metropolitan area in New York State. The Greater Rochester region, which is home to over one million people, ranks 3rd among the best metropolitan regions for "raising a family" by Forbes Magazine and 6th among 379 metropolitan areas as "Best Places to Live in America" by Places Rated Almanac.

Founded in 2001, the NPRL is a consortium of RIT faculty that share the goal of using the power of nanomaterials and nanotechnology for applications in energy generation and storage, electronic and photonic devices. The NPRL constitutes a multi-user facility spanning over 15,000 square feet across the RIT campus with 15 participating faculty and staff members, along with over 30 students. The labs are equipped with a new Aixtron 3x2" close coupled showerhead metal organic chemical vapor deposition (MOCVD) reactor; state of the art photovoltaic characterization facilities; a thermal, spectroscopic, and microscopic characterization facility; as well as access to RIT's clean room fabrication facility.

Required Qualifications

- Ph.D. in electrical engineering, physics, materials science, or other relevant field;
- Experience with epitaxial growth and characterization of III-V based materials.

If you are interested in joining our team, please email a brief cover letter and resume to:

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