POST- DOCTORAL RESEARCH ASSOCIATES
FLEXIBLE SOLAR CELLS AND INTEGRATED SOLAR MODULES
THE CENTER FOR AUTONOMOUS SOLAR POWER (CASP)
BINGHAMTON UNIVERSITY

Binghamton University is seeking applications for four full-time positions of Post Doctoral Research Associates at the Center for Autonomous Solar Power (CASP) with funding administered through the Research Foundation of the State University of New York at Binghamton. The CASP at Binghamton University conducts research and development in the area of thin film solar cells over flexible platforms, efficient electricity storage devices and integrated solar power systems focusing on various nano-enabled technologies.

Responsibilities: The Research Associates will be key members of the CASP team in research areas including on Materials for Flexible Solar Cells, and Devices, Roll-to Roll Test Bed Development, Systems Integration and Solar Cell Testing.

Research Associates (minimum 2 positions) will be primarily responsible for conducting research for the development of nano-semiconductor based photovoltaic (PV) materials and solar cell devices for the Center's focus in flexible autonomous solar power systems. The Research Associates will be required to carryout advanced research on materials and process development for fabrication of flexible solar cells.

Research Associates (up to 2 positions) will work to establish test beds on flexible platform, system engineering and solar cell testing. Towards this, the successful candidate will interface with the Center for Advanced Microelectronics Manufacturing (CAMM), a national R&D center at Binghamton University for flexible electronics, to develop process tools for roll-to-roll fabrication of solar cell devices.

In general, the Research Associates will actively participate in the graduate research and are expected to train and mentor graduate students and research assistants. It is expected that the Research Associate will promote research collaborations with academic and industrial partners, support efforts to obtain external funding and will accept additional responsibilities from time to time as they arise and are assigned by the Center's Director.

Qualifications: A Ph.D. degree in Materials Science and Engineering, Electrical Engineering, Mechanical Engineering or Physics, and research experience in academia is required. Experience in industry is of added advantage. The candidates for materials and device development of flexible solar cells should have research experience and experimental skills in thin films, solid-state electronics, nanotechnology and solar cells. The candidates must have in-depth knowledge of electronic materials, device physics and a record of publication in the related field. The candidates for test bed development, system integration and solar cell testing should have a basic understanding of intermetallics, polymers, semiconductors, and the processes using in automated electronics manufacturing. All candidates should exhibit a considerable degree of maturity, creativity, scientific flexibility, and should have the necessary communication abilities to interface with faculty, students and industry.

Compensation: Salary will be commensurate with the successful applicant's qualifications and experience.

Applications: Qualified individuals should submit a resume and a letter of application including a discussion of experiences and accomplishments relevant to the position. A list of three professional references with contact information must be included. Applications accepted until positions are filled.

Search Committee
Attn: Marilyn Angelo
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