

Post Doctoral Fellow

Department of Chemistry-Physics

Description: A postdoctoral fellow position is available in the Department of Department of Chemistry-Physics of the University of Arkansas at Pine Bluff and Department of Electrical Engineering of the University of Arkansas to develop novel semiconductor optoelectronics devices such as lasers, detectors and solar cells using novel materials such as SiGeSn and III-V-Bi. The candidate is expected to conduct one or several of the following research tasks such as: i) Design of devices using advanced simulation technique; ii) material growth using MBE or CVD techniques; iii) Material characterizations using various techniques such as XRD, TEM, PL, FTIR, etc. iv) Device fabrication using E-beam lithography and device characterization. Other duties for this position include working with the graduate students by providing guidance and suggestions, writing technical reports and papers, and helping in gathering information for proposal writing.

Minimum Requirements:

- a) The candidate should have earned his/her PhD degree in Electrical engineering, Physics, Chemical Engineering, Material Science, Chemistry, or related discipline.
- b) Demonstrated research experiences in at least one of the areas listed in the description.
- c) Evidence of publication in technical journals.
- d) Hands on experiences in III-V MBE/CVD growth (SiGeSn compound, carbon nanotube, or graphene) and machine construction/maintenance, or using E-beam lithography for nano-device fabrication is a big plus.

Salary: Commensurate with experience and education.

This position is for one year and renewable upon the availability of future funding.

Application Process: Interested persons should submit an application letter, a complete CV with a full list of publications, and a list of three references. Any technical question regarding the research projects for this position should be directly sent to Prof. Mansour Mortazavi through email (mortazavim@uapb.edu). Application materials should be submitted to:

Professor Mansour Mortazavi
Department of Chemistry-Physics
University of Arkansas at Pine Bluff
1200 N. University Drive
Pine Bluff, AR 71601

Deadline: Applications accepted until the position is filled.

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