

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Postdoctoral Scholar in the area of Semiconductor Physics

The nitride group of the Materials Department of UCSB is the leading academic center worldwide on nitride semiconductors. Two long term research projects are currently developed, one funded by the Simons foundation (<http://wave.umn.edu>), the other, RAISE-TAQ, by the National Science Foundation: (https://www.nsf.gov/awardsearch/showAward?AWD_ID=1839077)

We are recruiting a postdoctoral scholar to work these projects that range from fundamental science of disordered materials and their quantum properties to solving the outstanding issues of light emitting diodes. The candidate will participate in these two projects. The candidate will also have the latitude to develop their own research direction. The candidate will participate in the fundamental research activities of the nitride laboratory which focus on the study of the localization of charge carriers by alloy disorder or crystal defects at the atomic scale in semiconductors.

The research activities will be mainly experimental and based on optical spectroscopy techniques. The spectroscopy laboratory in UCSB is equipped with high resolution spectrometers and cw tunable laser from UV to infrared. An extension to photon correlation measurements will have to be implemented.

The post-doctoral scholar will have the opportunity to work with our collaborating laboratories, including Ecole Polytechnique (France), University of Minnesota (USA) and the National University of Taiwan (Taiwan).

Basic Qualification: At a minimum, applicants are expected to have completed all requirements for a Ph.D (or equivalent) in the field of Physics or Applied Physics, except the dissertation (or equivalent) at the time of application.

Additional: Must hold a Ph.D (or equivalent) in the field of Physics or Applied Physics by the time of appointment.

Preferred Qualifications: Applicants will have a strong background in semiconductor physics and spectroscopy with a Ph.D level qualification in this or a related area. Experimental skills are essential. Some experience in numerical simulations would be a significant advantage. The candidate should be able to provide proof of their ability to formulate a scientific project, and to publish and promote their research. An aptitude for work in a team environment is considered essential.

The initial term of the appointment will be 12 months, with the possibility of subsequent extension based on performance and availability of funding. Start date would be after December 13, 2019.

To apply, please go to the following link: <https://recruit.ap.ucsb.edu/IPF01708>

Applicants should submit:

- Curriculum Vitae
- Cover Letter
- Statement of Research
- Names of 2-3 References (contact information only)
- Publications (Optional)

Email: weisbuch@engineering.ucsb.edu with any questions related to the position.

Applications completed on or before 12/06/2019 will receive primary consideration.

The position is open until filled.

The Materials department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, professional visibility and service.

The University of California is an Equal Opportunity/Affirmative Action Employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

