POSTDOCTORAL POSITION IN APPLIED METAMATERIALS AT TERAHERTZ AND INFRARED FREQUENCIES AT THE UNIVERSITY OF CALIFORNIA, DAVIS

A postdoctoral position is available immediately in the Department of Electrical and Computer Engineering at the University of California, Davis (UC Davis). The candidate will work with the research groups of Prof. J. S. Gomez-Diaz and Prof. J. Hihath in the development of terahertz and infrared sources based on Cherenkov radiation in hyperbolic media.

Minimum requirements:

- PhD in Electrical Engineering, Physics, or a related field.
- Experience in applied electromagnetics.
- Numerical simulations (COMSOL Multiphysics, HFSS, or similar).
- Solid quantitative and programming skills.
- Significant track record of research and publications in top scientific journals and conferences.
- Excellent communication skills, both written and verbal.
- Track record of effectively working both independently and as part of a multidisciplinary team.

Candidates with significant expertise in one or more of the following topics are encouraged to apply:

- 2D materials (Graphene, hBN, TMDs, etc.)
- Hyperbolic metamaterials and metasurfaces
- Nanofabrication
- Nanoscale imaging and spectroscopy (SNOM, AFM-IR, etc.)

The candidate will be involved in a multidisciplinary project aiming to experimentally demonstrate terahertz and infrared sources based on novel electromagnetic responses enabled by hyperbolic metamaterials. Within overarching project goals, the candidate will have intellectual freedom to develop and pursue the research directions that they find most interesting. 90% of the time will be dedicated to conducting applied research while 10% will be employed in manuscript preparation and receiving training in grantsmanship and graduate student mentorship. The position will be for one year, renewable.

Interested candidates should email their full CV, list of three references, 1-page cover letter, and 2-3 representative publications. The cover letter should address the following questions: (i) What do you bring to our team in terms of expertise and skills (address categories listed above)? (ii) What do you expect to learn? and (iii) What are your long-term career goals?

UC Davis is located in a beautiful natural setting near Silicon Valley and the San Francisco Bay Area which offers abundant opportunities for academic and industry collaborations. UC Davis is an equal opportunity employer. The salary range is commensurate with qualifications and experience, and benefits include university staff privileges; group medical, dental, vision, AD&D, and life insurance options

Contact information:

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