

Job opening for a PhD position

The Nanomaterials Spectroscopy Group at the II. Institute of Physics at the University of Cologne, Germany invites applications for an ERC-funded PhD position. We use a unique combination of a homebuilt ultra-high vacuum Raman spectrometer and synchrotron radiation based techniques such as angle-resolved photoemission spectroscopy to study the electronic and vibrational properties of chemically functionalized, novel low-dimensional materials such as 1D graphene nanoribbons and members of the 2D materials library such as phosphorene and transition metal dichalcogenides.

We are broadly interested in understanding how to tune the spectral function and related many-body effects of low-dimensional materials by chemical functionalization, e.g. we would like to study how to induce electron-phonon coupling and superconductivity by alkali metal doping.

For the available position we are seeking a creative and enthusiastic individual with a passion for basic condensed matter physics research. Candidates should hold a MSc (or equivalent) degree or should obtain such a degree in the near future. Previous experience in ultra-high vacuum techniques and synchrotron radiation is considered a plus. For more specific information on research projects and themes please visit:

<http://www.ph2.uni-koeln.de/531.html>

The job applications (CV and the names of 2 Referees) should be addressed by email to Prof. A. Grüneis:

[grueneis\(at\)ph2.uni-koeln.de](mailto:grueneis(at)ph2.uni-koeln.de)



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