

software developer/student Data Acquisition and Control for novel physics experiments

The Controlled Molecule Imaging group at the Center for Free-Electron Laser Science at DESY and University of Hamburg performs novel experiments on the control and imaging of gas-phase molecules and their intrinsic ultrafast dynamics. We develop unique experimental apparatus to record movies of molecules at work.

Novel experimental setups require new software to control equipment, acquire data, and analyze the obtained results. To strengthen our team we are looking for software developers with a background in experiment controls, data acquisition, and online analysis — or the desire to apply modern programming concepts to these important and challenging applications.

A successful candidate will have a strong background in modern software development and hardware programming. Experience in experimental physics or related scientific environments is a plus but not necessary. The position can be filled at variable level.

We offer unique research opportunities in an interesting and open team and with first-class experimental and computational facilities. Our group is embedded in the Center for Free-Electron-Laser Science, DESY, the University of Hamburg and the excellence cluster Hamburg Center for Ultrafast Imaging.

Phys. Rev. Lett. 100, 133003 (2008) – http://dx.doi.org/10.1103/PhysRevLett.100.133003 Phys. Rev. Lett. 102, 023001 (2009) – http://dx.doi.org/10.1103/PhysRevLett.102.023001 Angew. Chem. Int. Ed. 48, 4900 (2009) – http://dx.doi.org/10.1002/anie.200900755 Nature Phys. 6, 428 (2010) – http://dx.doi.org/10.1038/nphys1666 Science, 342, 98–101 (2013) – http://dx.doi.org/10.1126/science.1242271 Phys. Rev. Lett. 114, 103003 (2015) – http://dx.doi.org/10.1103/PhysRevLett.114.103003

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