



Postdoctoral opportunities in Stanford PULSE Institute

Postdoctoral opportunities are available at [Stanford PULSE Institute](#) in the area of high-order harmonic generation (HHG) in solids. Following the [observation of HHG from bulk crystals](#) by our team in 2010 there has been a surge of activities in this area, and this field has emerged as one of the frontiers in Attosecond Science. Currently, our focus is on quantum materials including but not limited to two-dimensional crystals, topological insulators, and Weyl semi-metals as they provide exceptional platforms to control strong-field dynamics leading to HHG. In our experiments, we use the state-of-the-art mid-infrared laser systems available at [PULSE Institute](#) as our primary light source and the [Linac Coherent Light Source \(LCLS\)](#) for periodic beamtimes.

[More information about our recent activities can be found here](#)
[A recent review article on solid-state HHG can be found here](#)

Desired skills: Expertise in one or more of these areas: Nonlinear optics, strong-field physics, ultrafast materials science, high-harmonic spectroscopy, and attosecond science.

Education: A recent or soon to be completed Ph. D in physics or related field is required.

Contact: Interested candidates should email a CV and the name and contact information of three references to Shambhu Ghimire (shambhu@slac.stanford.edu).

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