

# Postdoctoral Research Associate Position in Condensed Matter Theory

DFT, TDDFT, and other dynamic methods

## **Indiana State University**

in the group of Dr. Guoping Zhang

The Department of Chemistry and Physics at Indiana State University (ISU), Terre Haute, IN 47809, USA, is seeking applications for a research associate position in laser-induced ultrafast magnetism. This position is supported by the U. S. Department of energy. The successful candidate will work in Dr. Guoping Zhang's research group. We are looking for a hard-working individual who is committed to outstanding research with genuine interest in first-principles methods and in particular density functional theory and time-dependence (Density matrix Liouville equation).

The code development skill is required for this position. The candidate must demonstrate excellent spoken and written English skills, and is willing to work with our students.

This appointment is initially made for one year; contingent on the performance of the research associate and mutual agreement, the position can be extended up to two years. The starting date is Feb. 15, 2016 but before Aug. 15, 2016

The major responsibilities include: (1) Modifying the exchange-correlation functionals for the excited states; (2) Developing the time-dependent DFT code.

Qualifications: (1) A PhD. in condensed matter physics and chemistry theory, first-principles DFT or TDDFT, with special emphasis on scientific computing and first-principles investigations and code development; (2) An excellent publication record; (3) Full familiarity with Fortran and C is needed within LINUX AND UNIX systems; (4) Preferred experience: working experience with the code development; (5) Excellent communication skills.

Candidates with ABD are particularly welcome to apply.

To apply, please go to our university's Human Resource Department webpage. The job No. is 15-00258. ISU encourages the applications of women and minority scholars; ISU has a higher percentage of diverse and multi cultural students than any other Indiana public institution. EOE.

For further information, please contact Dr. Zhang at [gpzhang@indstate.edu](mailto:gpzhang@indstate.edu)