Join the PhD program in

Density Functional Theory & Quantum Simulations Group (DFTQSG)

School of Physical Sciences, NISER, Bhubaneswar

Group webpage: http://www.niser.ac.in/~psamal/

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Areas:

- **Formalism :**
  - **Accurate meta-GGA functionals.**
  - **Hybrid density functional.**
  - **Orbital-dependent functionals.**
- **Exchange-Correlation functionals in three-dimensions :**
  - **Long-range corrected hybrid functionals for molecular systems.**
  - **Screened meta-GGA hybrids for solids.**
- **Development of the Pseudo-potential approach for meta-GGA functionals**
- **Applying meta-GGA range-separated functionals in the time-dependent DFT.**
- **TDDFT applied to molecules and solids with meta-GGA kernels.**
- **Implementation of meta-GGA range-separated hybrid functionals in the all-electron codes.**
- **Development of dielectric dependent meta-GGA level range-separated hybrid functionals.**
- **Study of the meta-GGA level hybrid functionals in the prediction of excited state properties**

Postdoc positions (02 nos.) are also available in the group. Applications via institute PDF or NPDF are most welcome.

School of Physical Sciences, NISER, Bhubaneswar

How to apply for POSTDOC position: Email directly to **Prof. Prasanjit Samal or any of the current group members** to hear more about our group and the projects we work on.

More info: https://www.niser.ac.in/notices/2021/academic/PhD_Advertisement_2021_Summer_v2.pdf

Online Application Deadline: May 01, 2021 (may be extended due to current pandemic situation)

Check the website regularly for updates of this admission process.

Contact Supervisor:
Prof. Prasanjit Samal
(psamal@niser.ac.in)

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