

Job Alert! /Ph.D. Candidates for MRSF-TDDFT

**TITLE:** Next Gen. Quantum Theory Developments for Photodynamic Simulations

**TOPICS:** Improvements of MRSF-TDDFT and Nonadiabatic Dynamics Simulations on Photo-biology

**DESCRIPTION:** Ph.D. Candidates

**LOCATION:** Theoretical Chemistry Group at Kyungpook National University, South Korea (<https://qchem.knu.ac.kr>)

**CONTACTS:** Cheol Ho Choi [cchoi@knu.ac.kr](mailto:cchoi@knu.ac.kr)

**CONTEXT:** We are looking for candidates who have a keen interest in either method development or excited state dynamics simulations. These roles will entail collaborating with a passionate team dedicated to creating and integrating innovative computational methodologies for mixed-reference spin-flip (MRSF)-TDDFT within the context of the "Open Quantum Platform," the next-generation quantum software. For additional information, please visit <https://qchem.knu.ac.kr>. Our project team focuses on developing, validating, and implementing new approaches for handling excited state dynamics and addressing strong electron correlation in molecules and solids.

**CANDIDATE'S PROFILE:** The ideal candidate should possess substantial experience in Quantum Chemistry/Physics or a related field. Essential qualifications include proficiency in programming and/or scientific applications. Collaborative abilities are crucial, along with a high degree of self-reliance.

All interested candidates are encouraged to apply, regardless of their personal background.

**HOW TO APPLY:** Qualified applicants should email an expression of interest, including CV, list of publication and names of two referees to Cheol Ho Choi ([cchoi@knu.ac.kr](mailto:cchoi@knu.ac.kr)). The applications will be considered as they appear until the position is filled.

**SOUTH KOREA:** Working in South Korea offers opportunities for a good work-life balance. English is widely spoken, though Korean is the main language off the campus.



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