

# Research Grants for PhD students from the China Scholarship Council

Information Form (please read the guidelines carefully on the website [www-csc.utt.fr](http://www-csc.utt.fr))

Supervisor's name :  Given names :

Status (prof., assistant prof., ...) :

Laboratory :  Website address :

Institution :  Website address :

Scientific competence of the supervisor:

Our research program is dedicated to fundamental research and especially to homogeneous catalysis by the C-H functionalization of molecules via cutting-edge tools . Our expertise relies on organofluorine chemistry, sulfur chemistry and homogeneous catalysis.

Two major publications in the field proposed for the PhD :

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Website address of the personal page :

**Supervisor's email :**

**Description of the research work proposed for a PhD** **Topic # (see list) :**

Title :

Subject :

This project aims at tackling fundamental research questions such how to access to enantioenriched sulfur-containing compounds in a sustainable manner. This fundamental project will offer synthetic tools to the organic chemistry community to synthesize an important class of compounds. Over the years, the scientific community put a lot of efforts to push forwards the frontiers of knowledge in this active research field. However, synthetic methods to access enantioenriched organic thiocyanates are still highly demanding. By designing new reagents and original transformations using 3d row metals, an access to a large portfolio of sulfur-containing molecules will be successfully achieved.

Recently, our research group "Synthesis of Fluorinated Molecules" headed by Prof. P. Jubault, has successfully designed new SCN-reagents and developed innovative transformations. Thanks to our current expertise, we aim at developing new unprecedented sulfur-containing molecules by the design of original reagents combined with C-H bond functionalization reactions by catalysis to get further insights in this research field. To support this research program, we are looking for an outstanding and highly motivated candidate to pursue a PhD thesis within our group.

Keywords :

Expected collaborations :

Background required from the applicant :

Existence of a PDF file detailing the proposal ("yes" or "no") :

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