Information Form (please read the guidelines carefully on the website www-csc.utt.fr)				
Supervisor's	s name : BESSET	Giv	en names :	Tatiana
Status (prof., assistant prof.,): Director of research				
Otatus (proi	., assistant prof.,)			
Laboratory	COBRA - UMR 6014			Website address :
Laboratory		_	http://www.la	
Institution	Institut National des Sciences Appliquée Rouen	S -	http://www.ir	Website address : nsa-rouen.fr/
Scientific co	empetence of the supervisor:		ntep.,//www.ii	ica readiliii
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.				
aa				
Two major publications in the field proposed for the PhD :				
F. Doche, T. Poisson, T. Besset,* ACS Catalysis 2023, 13, 21, 14112.				
L. Ruyet, M. I. Lapuh, V. S. Koshti, T. Földesi, P. Jubault, T. Poisson, Z. Novák, T. Besset,* Chem.				
Commun. 2021, 57, 6241				
Website address of the personal page : https://www.bessetgroup.cnrs.fr/				
Supervisor's email: tatiana.besset@insa-rouen.fr  Description of the research work proposed for a PhD  Topic # (see list): II-13				
Description	Tor the research work proposed for a Fr	טו		Topic # (See list).
Title : Sulfu	ur & C-H functionalization: a good partnersh	nip to acc	ess unpreced	lented sulfur-containing molecules
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:				
Sulfur, Cata	llysis, Sustainability, Organic chemistry, Fur	ndamenta	ıl research, E	co-friendly reactions,
Expected collaborations :				
No				
Background required from the applicant :				
A Master de	egree in Organic Chemistry is expected.			
	f a PDF file detailing the proposal ("yes" or	"no") :	Yes	
(see guide	lines on the website www-csc.utt.fr)			

Research Grants for PhD students from the China Scholarship Council