Research Grants for PhD students from the China Scholarship Council Information Form (please read the guidelines carefully on the website www-csc.utt.fr)					
Supan	visor's name : Poisson		en names :	Thomas	
Superv	VISOI S Hame .	Giv	en names .	Hiolias	
Status	(prof., assistant prof.,): Professor of Che	emistrv			
			I		
Labor	atory : UMR 6014 COBRA (ZRR)		la 44-a - 1/a 1	Website address :	
	INCA de Pouer Normandia		http://www.la	ab-cobra.rr Website address :	
Institu	ution : INSA de Rouen Normandie		www.insa-ro		
Scienti	fic competence of the supervisor:				
	search group is interested in the development	of new metho	odologies for	the construction of relevant fluorinated	
and non-building blocks. In that context, we mainly focus on the design of metal catalyzed or mediated reaction. Since					
the last 5 years, we devoted lots of efforts to achieve new transformation by using inexpensive and powerful copper					
catalysts with a strong emphasis on the elucidation of the reaction mechanism to get a fundamental overview. In additon, we established a strong research topic on single electron transfer based reation using copper photocatalyst and					
	chemistry.	dion dansier	Daseu Teatio	on using copper photocatalyst and	
	aior publications in the field proposed for the P	hD :			
1.	Ivanova M. V.: Bayla A.: Bassat T.: Pannacoucka Y.: Daissan T. Angaw Cham Int. Ed. 2016, 55, 14141				
١.					
2.	Zhong, M.; Gagné, Y.; Hope, T. O.; Pannecoucke, X.; Frenette, M.; Jubault, P.; Poisson, T. Angew. Chem. Int. Ed. 2021, 60, 14498.				
Websit	te address of the personal page :				
***************************************	Supervisor's email: thomas.poisson	@insa-rouen	.fr		
Description of the research work proposed for a PhD Topic # (see list): II-13					
Title:	New electrochemical transformations to synthe	esize organo	boron specie	es and mechanism understanding	
Subjec					
Nowadays, the quest for new methodologies and reagents to efficiently synthesize valuable boron- containing building block is very important and very appealing for scientists. In addition, the understanding of these transformations is still important to push the contemporary boundaries of knowledge. Besides, electrochemistry, although known for years is a powerful tool to develop new transformations, impossible so far. Thanks to the newly developed commercially available set-up, which are worldwide supplied, electrochemistry is in its renewal. Aiming at taking benefit from our home expertise and willing to push beyond the boundaries of knowledge in organoboron chemistry, we intend to develop new electrochemical transformations to develop more efficient transformations in terms of yield and environmental footprint. The addition of boryl radical, a species which has been largely ignored for decades, on cyclic, aromatic, and original scaffold will be achieved. A strong emphasis will be devoted to the fundamental understanding of the reaction mechanisms to share with the whole community these new insights. To support this research program, we are looking for an outstanding and highly motivated candidate to pursue his PhD within our group. Keywords: Organoboron Chemistry; Synthetic methodology; Electrochemistry; Reaction Mechanism Expected collaborations:					
	around required from the applicant :				
A Master degree in Organic Chemistry, good knowledge of the analytical methods (NMR, MS)					
Exister	nce of a PDF file detailing the proposal ("yes" o	or "no") :	YES		
	uidelines on the website www-csc.utt.fr)		-		