



**Aquitaine –Karnataka collaboration  
Scientific Project for Pre-PhD student exchange**

**Scientific Proposal**

Project Title	<b>Development of New Silicon Lewis Acids for Organic Catalysis</b>	
Scientific domain	Organic Chemistry	
Summary (ca. 10 lines)	The aim of this project is the development of new Lewis acids based on organosilicon compounds and their use in various catalytic processes. Various silanes will be prepared and tested in well-known reactions including benchmark asymmetric Diels-Alder processes. Then, the most efficient catalysts will be used for the development of new reactions currently under active scrutiny in our laboratory.	
Student profile wished	Students having an interest in organic and organometallic chemistry as well as catalysis	
Supervisor Name	Prof. Yannick LANDAIS	
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Institute/laboratory/industry (full address)	Institute of Molecular Sciences (ISM)	
Director Name Institute/laboratory/industry	Prof. Philippe GARRIGUES	
Director Institute/laboratory/industry @ & phone	p.garrigues@ism.u-bordeaux1.fr	Tel: (+33) 5 40 00 62 83
Timing & duration for project (give approximate ranges)	4-6 months	
Representative References	P. Ducos, V. Liautard, F. Robert, Y. Landais <i>Chem. Eur. J.</i> <b>2015</b> , <i>21</i> , 11573.	

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<a href="http://www.cbmn.u-bordeaux.fr/aquitaine-karnataka-exchange?lang=2">http://www.cbmn.u-bordeaux.fr/aquitaine-karnataka-exchange?lang=2</a>	