



Laboratoire Hétérochimie
Fondamentale et Appliquée

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Post-doctoral position: Synthesis of Organic Catalysts for ROP of Cyclic Siloxanes

LHFA – University of Toulouse

Starting January 2020

Silicones are thermally stable siloxane (Si-O) based polymers and are one of the most important industrial polymers with numerous applications in various fields. Taking into account the actual large silicon production, the successful development of a new technology, allowing to achieve the production of silicones without any toxic side-products, will provide a huge economic and ecologic gain (Increased yield, avoidance of costly and time-consuming purification process). We will address this important issue by developing new efficient catalytic systems for ring-opening polymerization (ROP) of cyclic siloxanes (NHC type organic catalysts), collaborating with one of the most important companies for the silicone production.

The candidate must have a solid background in molecular chemistry (organic and organometallic chemistry). Good skill in manipulations with highly reactive molecules (air-sensitive complexes) will also be required. Applications should include a cover letter and a detailed CV with the name and address of at least one referee.

Sous la co-tutelle de



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