

Postdoctoral researcher position – 12 months

Applications of a novel catalytic silylation reaction to the formation of innovative carbosilanes

General details	
Starting date	01/12/2023 at the earliest
Duration	12 months – Full time
Project supervisor	Clément Chauvier clement.chauvier@sorbonne-universite.fr
Host institution	Sorbonne Université Institut Parisien de Chimie Moléculaire
Keywords	Carbosilanes, Silylation, Polymerization, Organic Synthesis

Position description

We are seeking a postdoctoral researcher with less than 2-year experience after successful completion of a PhD degree in chemistry. The candidate will join a young and dedicated team located at Sorbonne Université in Paris to further explore the applications of a novel catalytic reaction of silylation. The candidate will benefit from all the available facilities of the *Institut Parisien de Chimie Moléculaire* to conduct start-of-the-art synthetic work.

Project description

Organosilanes containing at least one C–Si bond have found increasing applications across the chemical science in fields such as organic synthesis, materials science and medicinal chemistry. However, the state-of-the-art synthetic methodologies employed to prepare these carbosilanes have practical and/or economic limitations. Capitalizing on a **novel C–Si bond formation reaction recently discovered in our laboratory, the recruited postdoctoral fellow will carry out synthetic work to demonstrate the wide applicability of the methodology.** To that end, the successful candidate **will design, synthesize and characterize original carbosilanes** of medicinal interest as well as silicon-containing polymeric materials. While mainly synthesis-oriented, the project will also mobilize concepts from homogeneous catalysis and polymer synthesis. The intellectual property as well as the results obtained within this project will be valorized through patenting and/or publications.

Requirement

- PhD in synthetic chemistry with significant achievements in multi-step organic synthesis.
- Experience in handling moisture-sensitive compounds (Schlenk or Glovebox techniques).
- Past experience in the synthesis and the characterization of polymers will be an asset but is not mandatory.
- Fluent in French and/or English.

How to apply?

Interested candidates should send their application by email (clement.chauvier@sorbonne-universite.fr, **subject:** “Postdoc CARBSi”) with the three following documents combined in a single PDF file: full CV including the names of 2 references, a brief research summary (1-2 pages) and a cover letter (1 page).