



Dr. Adrien Quintard

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18 months post-doctoral position available on the discovery on new synthetic molecular machines

Project: As nature uses biomachinery to promote an infinite number of life-essential processes, the development of new mimetic synthetic molecular machines hold great promise to potentially drive innovative solutions to physical or biological major societal issues. Although, the last decade has seen an explosive growth in the development of chemical nanomachines, a number of crucial challenges still need to be efficiently addressed to reach competitive synthetic tools.

In this project, we propose to design new type of molecular machines to solve the problem of the continuous generation of a molecular motion by a fuel. The selected candidate will be involved in multi-disciplinary aspects of modern organic chemistry from the design and synthesis of the molecular machines to motion experiments.

Profile: The position requires a solid training in organic synthesis and in supramolecular chemistry. The skills required for this research are the classical skills of an organic chemist, especially concerning the ability to perform reactions under inert conditions and to purify organic compounds using standard techniques (chromatography, recrystallization, distillation) and a good knowledge in NMR analysis (^1H , ^{13}C , DEPT, HSQC, HMBC). We will look for a rigorous, motivated and enthusiastic candidate with excellent knowledge in general organic chemistry.

Gross Salary: around 2400 Euros/month.

Applicants should send a CV, a motivation letter, and the contact information of at least two referees to Dr. Adrien Quintard.

For details about us, please check our website: <http://ism2.univ-amu.fr/fr/annuaire/stereo-11>