



**Dr. Adrien Quintard**

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## PhD position available, starting September 2018 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:** Strongly motivated student with a Master in molecular chemistry with distinction (mention B or TB) and at least a 6-month experience in synthetic organic chemistry research. An experience in multi-step synthesis and/or supramolecular chemistry would be appreciated but most importantly, the candidate should be research dedicated and curious.

**Salary:** around 1500 Euros/month + teaching fees.

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>