



Erasmus+ Traineeship

EMPLOYER INFORMATION	
Name of Organization	University of Murcia
UMU Contact Person and e-mail	José Ginés Hernández Cifre jghc@um.es
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ENTERPRISE JOB DESCRIPTION	
Name of enterprise	Synthetic Organic Chemistry Group / Grupo de Química Orgánica Sintética
Duration	6 months
Working Hours	7 h/day
Project Description	The research will be developed in the area of synthetic molecular machines and motors. In particular, the project seeks to investigate new approaches and methodologies to exploit the unique properties of rotaxanes and other interlocked architectures in order to explore novel stimuli for triggering large amplitude motions. The switching of physical and chemical properties of the synthesized molecules is sought.
Tasks of the Erasmus intern	The Erasmus intern will be involved in the synthesis and characterization of amide-based interlocked and non-interlocked compound.
Requirements	Applicants must have a good background in Organic Chemistry and previous experience in Synthetic Organic Chemistry. Good command of written and spoken English is a must.



What do we offer	The research will be developed in the area of synthetic molecular machines and motors. All the standard equipment required to carry out synthetic chemistry (including photoreactors, microwave reactors, HPLC systems, benchtop carousel systems for parallel synthesis and optimization, etc) would be at hand and all department facilities (NMR-200, 300, 400, 600 MHz- mass spec, X-ray crystallography, UV-VIS, IR, CD, DSC, TGA, ITC, TEM, SEM etc.) would be made available from the SAI of the University of Murcia.
Website	<p>https://curie.um.es/curie/catalogo-ficha.du?seof_codigo=1&perf_codigo=10&peva_cod=003&titulo=Ciencias+Experimentales&sec_codigo=&cods=E047*04</p> <p>Also: https://qosumu.wixsite.com/socumu-lab</p> <p>Interested individuals should apply with a motivation letter and a CV (Prof. Mateo Alajarin, alajarin@um.es; Dr. José Berná, ppberna@um.es).</p>