

Looking for post-doctoral researchers working on sustainable technologies for the regeneration of urban and industrial wastewaters and production of advanced biofuels from oleaginous and agro-forest biomass for Marie Curie action in Mostoles, Madrid Spain

Chemical and Environmental Engineering Group (CEE) located at the Higher School of Experimental Sciences and Technology (ESCET) of the Rey Juan Carlos University (http://www.escet.urjc.es/~iqa/index_english.php?Section=main) is looking for potential candidates to apply to FP7-PEOPLE Marie Curie programme (Intra-European Fellowships for Career Development (IEF) and International Incoming Fellowships (IIF)).

Topics considered for the grant submission are:

Topic: Sustainable technologies for the regeneration of urban and industrial wastewaters

The candidate will work on coupling of advanced oxidation processes (Fenton-like processes) and biological treatments (based on suspended and fixed growth reactors) with the main purpose of the regeneration of industrial wastewater effluents and/or the abatement of toxic, non-biodegradable compounds for their further and convenient depuration in conventional wastewater treatment plants. *For further information contact Fernando Martínez (fernando.castillejo@urjc.es http://www.escet.urjc.es/qiqa/index_english.php?Section=staff&IdPersona=43)*

Topic: Sustainable routes for the production of advanced biofuels from oleaginous and agro-forest biomass

The candidate will work on non-conventional raw materials for biodiesel production (low-cost vegetable oils, animal fats, oleaginous microorganisms as well as oleaginous wastes); co-processing of oleaginous biomass in the conversion units of conventional oil refineries; valorization of the biodiesel production by-products; processing of low-cost lignocellulosic biomass to yield advanced biofuels distinct of bioethanol. *For further information contact Juan Antonio Melero (juan.melero@urjc.es; <http://www.escet.urjc.es/~iqa/index.php?Section=staff&IdPersona=47>)*

The CEE Group is financially supported by different National and Regional projects as well as private research contracts with national companies (Repsol, Iberdrola and Abengoa). Some of the members of the CEE group belong to Regional REMTAVARES (<http://www.remtavares.es>) and RESTOENE networks (<http://www.restoene.net>) which are focused on both topics for the evaluation of different technologies in the regeneration of urban and industrial wastewaters and conversion of limited-value agro-forest and oily residues into highly added value clean biofuels useful for transportation and electricity, respectively. These networks are made up of different prestigious research institutes and universities of the Community of Madrid, Spain. The CEE group provides a Wastewater Treatment Plant (WWTP) at pilot plant scale and water analytical laboratory (LAGUA), fuel analytical laboratory (PETROLAB), among other facilities to support the research in the offered topics. The CEE group has also experience as host institution in previous IEF Marie Curie Fellowship.

Candidates must hold a Ph.D. degree related with the topic of the proposed work. They must have a strong background in the targeted topic, which will be mainly demonstrated through a strong record of research accomplishments, including publications in top ranked journals, participation in international or national-funded research projects. Interested candidates must send a detailed CV, a cover letter describing his/her profile, interests and goals (1 page max.). Application must be sent until 30 June 2013 to the e-mail addresses indicated for each topic.

Further information about the Marie Curie actions within this call can be found in http://ec.europa.eu/research/participants/portal/appmanager/participants/portal?_nfpb=true&_windowLabel=portletInstance_60&portletInstance_60_actionOverride=%2Fportlets%2Fcall%2Ffp7CallMenu%2Fgo2People&_pageLabel=call_FP7#people.