

Motivation Letter

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Dear Sirs,

My name is Ana Sofia Fonseca and I studied Environmental Engineering, from 2006-2009, at University of Aveiro, Aveiro (Portugal), where I obtained a bachelor's degree. In December 2011, I obtained a master's degree in Environmental Engineering at the same university. After my graduation, from 2012-2013, I worked as Research Fellow in the University of Aveiro (Grant Reference: PTDC/EQU-EQU/098617/2008). There I gained profound knowledge in nanoparticles synthesis and characterization.

Currently, since March of this year I am working as an Early Stage Researcher (ESR) (3 years PhD) in the framework of the FP7 Marie Curie Initial Training Network (ITN) "*Human Exposure to Aerosol Contaminants in Modern Microenvironments*" (HEXACOMM), at the Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona (Spain). My research is titled "*Characterization and sources of engineered nanoparticles, with a focus on occupational exposure*", with the main objective to characterize occupational exposure to nanomaterials in several industrial facilities in different countries from the ITN consortium (Spain, UK, Finland). Examples of nanomaterials to be targeted are carbon nanotubes (CNTs) and ceramic nanomaterials.

Regarding the call for tender of short Exchange visits I would like to express my great interest in applying for a Short-Term Scientific Mission (STSM) in the frame of the COST Action TD1105 *EuNetAir* to undertake the work described in the attached work plan.

Attend this mission will allow me to broaden knowledge for working in the aerosol science field, such as: (i) atmospheric aerosols sampling and measurement techniques, (ii) physical and chemical characterization of aerosols. Other task which will be performed during the STSM will be industry data analysis with Matlab programming where, workplace measurements were previously done in an industrial environment which produces a new material which is a hybrid of

Carbon Nanotubes (CNT) and fullerenes. The aim of this last task will be the assessment of the extent of exposure to CNT materials in the workplace.

The period of this STSM was planned so that I could contact some researchers that have been undertaking relevant work on the same research field and have new contributions and potential new research paths while developing my PhD thesis (where I started on 1st March 2013). The transferred knowledge between the host institution researchers and me will allow me to maximize the outcome of my research, integrating gain information and inspiring insights.

I see this STSM as the way to broaden my knowledge in this fields that match my interests and also a great opportunity to obtain results that will be essential for development of my PhD thesis.

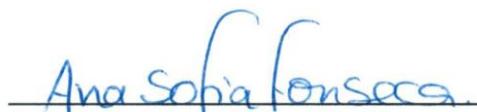
If you require any further information, please do not hesitate to contact me.

I would be grateful if you would consider my application.

I look forward to hearing from you.

Yours sincerely,

Ana Sofia Fonseca

A handwritten signature in blue ink that reads "Ana Sofia Fonseca". The signature is written in a cursive style and is positioned above a horizontal line.

(Ana Sofia Godinho da Fonseca)