

Expression of Interest



Contact Person/Scientist in Charge

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Universidad de Alicante

Department / Institute / Centre

- **Name of institution:** Department of Inorganic Chemistry / Adhesion and Adhesives Laboratory
- **Address:** Carretera Alicante - San Vicente
- **Province:** Alicante

Research Area

- Chemistry (CHE)
- Life Sciences (LIF)

Brief description of the institution:

The University of Alicante (UA) was created in 1979. Today it educates and trains more than 36.000 students -2.500 of them are international students - and offers more than 80 undergraduate and 96 postgraduate programmes: consequently it is proportionally one of the fastest growing universities in Spain. The UA houses 227 research groups in Social and Legal Sciences, Experimental Sciences, Technological Sciences, Human Sciences, Education and Health Sciences and 15 Research Institutes (Water & Environment, Materials, Electrochemistry, Biodiversity, Chemical Processes and Organic Synthesis, and Modern Languages, among others). Thus, the UA employs over 2.400 researchers/ professors and has a complex management /administration structure of 1.300 people, which involves an annual budget of 175 million Euros.

UA is a young and dynamic university with vast experience in implementing EU funded projects in different programmes and areas, with presence in more than 60 countries worldwide. In the last 10 years, UA has successfully acted as coordinator of many Tempus, Alfa, Edulink projects involving Third Countries and Lifelong Learning and Framework Programme (FP, DG Research) Projects. Moreover, the participation in

FP has been increasing in the last years, taking part in 25 5th FP, 26 6th FP, 45 7th FP projects (13 of them coordinated by UA), and 6 in H2020.

It is worth underline the big effort performed by UA in order to meet the commitment with the principles set out in the European Charter for Researchers and in the Code of Conduct for the Recruitment of Researcher

Brief description of the Centre/Research Group (including URL if applicable):

The Adhesion and Adhesives Laboratory develops projects in the areas of Adhesion, adhesives, coatings and sealants. The interest is focused in the optimization of interfacial interactions in polymers, rubbers and natural materials by developing environmentally friendly surface treatments. Furthermore, the synthesis, formulation and characterization of several types of adhesives, coatings and sealants are developed including polyurethanes, cyanoacrylates, epoxies, unsaturated polyester resins and novel green materials (polyesters, polyols, etc).

Project description:

Environmentally friendly surface modifications of substrates.

Development of polyurethane chemistry intended to produce designed adhesives, coatings and sealants.

Use of graphene derivatives in optimizing the properties and performance of adhesives, coatings and sealants.

Development of self-healing polymeric adhesives.

Biomimetic adhesives and bioadhesion

Applications

CV of the candidate

2 letters of recommendation

Summary of the project intended to be developed

Documents must be submitted 6 months in advance of the expected time for starting the project.