

## Formulario EOI - EXPRESIONES DE INTERÉS

### Contact Person / Scientist in charge (Datos del IP del grupo de investigación o responsable científico)

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### Department / Institute / centre (Datos del departamento donde estaría ubicado el investigador a contratar)

Name:	Departamento de Ingeniería Industrial e Ingeniería Civil
Address:	Escuela Técnica Superior de Algeciras

### Project Description(max. 1800 caracteres)

The research group I am responsible for is waste utilization. We want to develop a project to make ultra high-strength or high-strength concrete (UHPC), using cork and blast-furnace slag. In previous investigations we know that these slags transfer a greater resistance to the concrete. On the other hand, the cork residue that we are going to use is powder that we introduce into the concrete with a certain treatment. By adding cork to the concrete, we have observed that the resistant capacity decreases relatively little, but on the contrary, both thermal and acoustic insulation increase with said addition.

The study aims to optimize the amount of cork that is added to high-strength concrete so that it is viable in its implementation, applying this procedure not only as support for structures but as a lining for buildings both for soundproofing and control. temperature in them.

### Research Area (select)

<input type="checkbox"/>	Chemistry (CHE)
<input type="checkbox"/>	Social Sciences and Humanities(SOC)
<input type="checkbox"/>	Economic Sciences (ECO)
<input type="checkbox"/>	Information Science and Engineering (ENG)
<input checked="" type="checkbox"/>	Environmetal Sciences and Gelogy (ENV) X
<input type="checkbox"/>	Life Scientes (LIF)
<input type="checkbox"/>	Mathematics (MAT)
<input type="checkbox"/>	Physics (PHY)

**Applications: documents to be submitted and deadlines**

Examples: Expression of interest, CV