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pcn-energie@recherche.gouv.fr

**Partner search**

**Date (21-07-20)**

* **(\*) Relevant topic in work programme**

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| LC-GDArea 4: Energy and resource efficient buildingsArea 5: Sustainable and smart mobilityArea 7: Ecosystems and Biodiversity |

* **Quick description of the project**

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| **(describe the objectives, activities, partners requested and their skills)** |

* **(\*) Do you intend to apply as ? :**

**Participant : Yes**

**Coordinator : No**

**(\*) Either Description of the expertise requested (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting***

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| **Xxxxxxxxx****+ key words :**  |

**Or Description of the expertise proposed (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting***

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| The ESITC Research Laboratory is the 'Joint Research Laboratory' of the 3 ESITCs (Caen, Metz and Paris). Its research activity is focused on construction materials with two main axes:* Material efficiency and performance: The aim is to develop **alternative materials** from recycled resources (natural fibres, recycled aggregates, shells, earth, etc.) that meet technical specifications. This theme is based on the microstructure-physical-mechanical behaviour and energy correlations of cementitious materials and composites. In particular, the study of the influence of the microstructure (porous, crystalline and chemical composition) on the physico-mechanical, energetic and geotechnical properties of building materials.
* Durability of materials in their environments: This theme focuses on the behaviour of cementitious and alternative materials in the maritime environment. The objective is to understand the mechanisms involved in the process of durability and deterioration of cementitious materials in the presence of biofilms and micro-organisms.

These scientific themes serve as a basis for designing, developing, testing and specifying the technical and environmental performance of new materials in **four areas:** Materials for Environmental Geotechnics, Eco-construction, Energy Efficiency in Buildings, Maritime Infrastructures **+key words :** Materials, Circular economy, Energy efficiency, Maritime infrastructure, biodiversity |

**Organisation information**

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| **Organisation and country:****ESITC Caen (FRANCE)** |
| **Type of organisation:****□ Enterprise □ SME □ Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?****□ Yes □ No** |
| **Web address:** <https://www.esitc-caen.fr/>  |
| **Description of the organisation:** ESITC Caen is managed by a non-profit association under the French law of 1 July 1901 and is steered by a Board of Directors composed of approximately thirty members. Its highly business-oriented diversity reflects ESITC Caen's desire to provide its engineering students with a practical and operational opening to the civil engineering industry. |

**(\*) Contact details**

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| **Country** | FRANCE |

**(\*) –Mandatory**