

Partner search/offer

Date (15-12-2022)

(*) – Mandatory

- **(*) Relevant topic(s) in work programme (code & name of the topic(s) line(s))**

- HORIZON-CL4-2023-RESILIENCE-01-34: Advanced (nano and bio-based) materials for sustainable agriculture
- HORIZON-CL4-2023-RESILIENCE-01-05: Recycling technologies for critical raw materials from EoL products
- HORIZON-CL4-2023-TWIN-TRANSITION-01-45: Circular economy solutions for the valorisation of low-quality scrap streams, materials recirculation with high recycling rate, and residue valorisation for long term goal towards zero waste
- HORIZON-CL4-2023-TWIN-TRANSITION-01-36: Modelling industry transition to climate neutrality, sustainability and circularity
- HORIZON-CL4-2023-TWIN-TRANSITION-01-42: Circular economy in process industries: Upcycling large volumes of secondary resources
- HORIZON-CL4-2024-RESILIENCE-01-35: Biodegradable polymers for sustainable packaging materials

- **Quick description of the project concept**

N/A

- **(*) Description of the expertise proposed (up to 1000 characters)**

- Innovative Polymer Processing (nanolayer coextrusion, 3D print, hybrid composites, biopolymer and biocomposites...
- Rheology & Rheometry of polymeric systems: Shear and elongation rheology/modelling of interfacial phenomena in complex fluids flow.
- Micro/Nano-structuration of polymers and their multiphase systems: Including polymer blends, bio/composites, multi micro- and nano-layered polymer structures
- Structure-processing property relationships
- Recycling, Recyclability & Reuse of plastics

- **(*) Keywords describing the expertise proposed (up to 10 words)**

Polymer science, rheology and processing, multiphase and micro/nanostructured polymeric materials, biopolymers and composites

Organisation information

(*) Organisation and country:

INSA Lyon – France
Laboratory IMP (Polymer materials engineering)

(*) Type of organisation:

Enterprise SME Academic Research institute Public Body Other: Association

<p>Former participation in FP European projects? X Yes <input type="checkbox"/> No</p>
<p>Web address: www.insa-lyon.fr</p>
<p>Description of the organisation: INSA Lyon is an Engineering School dedicated to Applied Sciences, which makes it a large and unique research center which joins education activities, 23 research laboratories (700 researchers and teacher-researchers, 650 PhD students), and industrial partners (over 1.000 industrial contracts a year). As an academic oriented to industry, our institute carries out research in engineering sciences for companies looking for technological solutions.</p> <p>The laboratory “Ingénierie des Matériaux Polymères” (IMP) is a research unit developing polymer activities from basic research to applicative goals, from the synthesis of new macromolecular architectures, to the modifications and formulations of polymers (synthetic and natural) in view of engineering new (multi)functional materials and to establish relationships between the structure and the final properties.</p>

(*) Contact details

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