# SUSTAINABLE MATERIALS, PROCESSES AND SYSTEMS FOR ENERGY TRANSITION

**MUR DM 117/POLLUTION - Development, functionalization and integration of MEMS devices in innovative analytical GCs**

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<tr>
<td>Supervisor</td>
<td>LAMBERTI ANDREA - <a href="mailto:andrea.lamberti@polito.it">andrea.lamberti@polito.it</a></td>
</tr>
<tr>
<td>Contact</td>
<td>Stefano Zampolli - CNR IMM Bologna - <a href="mailto:stefano.zampolli@cnr.it">stefano.zampolli@cnr.it</a></td>
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## Context of the research activity

The main research activities will be focussed on the development of the advanced analytical “pico-GC” platform CNR-IMM and Pollution Analytical equipment are collaborating on. This innovative platform is based on the integration of micromachined devices (MEMS) in the assembly of full “lab-on-chip” gas chromatographs for the analysis of gas mixtures, with unique analytical performances for industrial, environmental, energy and quality&process applications.

Progetto finanziato nell’ambito del PNRR – DM 117/2023 - CUP: E14D23002050004

## Objectives

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## Skills and competencies for the development of the activity

Desired competences:
- Chemistry, Industrial chemistry or Chemical Engineering (preferably)
- Knowledge of the main working principles of gaschromatography
- Basic knowledge of MEMS technology is preferable
- Excellent practical skills, multidisciplinarity
- Effective communication, both verbally and in written form
- Proactive approach, ability to operate independently
- Desire for application-driven R&D in an industrial environment
- Fluent English (written, spoken). Good working knowledge in Italian is preferable