

SUSTAINABLE MATERIALS, PROCESSES AND SYSTEMS FOR ENERGY TRANSITION

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

Funded By	MINISTERO DELL'UNIVERSITA' E DELLA RICERCA [Piva/CF:97429780584] Politecnico di TORINO [Piva/CF:00518460019] POLLUTION S.R.L. [Piva/CF:00694631201]
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Context of the research activity	<p>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</p> <p>Progetto finanziato nell'ambito del PNRR – DM 117/2023 - CUP: E14D23002050004</p>
Objectives	Progetto finanziato nell'ambito del PNRR – DM 117/2023 - CUP: E14D23002050004
Skills and competencies for the development of the activity	<p>Desired competences:</p> <ul style="list-style-type: none">- 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, multidisciplinary- 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