**Funded By**
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UNIVERSITA' DEGLI STUDI DI PALERMO [P.iva/CF:00605880822]

**Supervisor**
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**Contact**
Onofrio Scialdone - Università di Palermo - onofrio.scialdone@unipa.it

**Context of the research activity**
Research activities will be focused on the CO2 electrochemical conversion in aqueous electrolytes into formic acid and syngas. For the process’ industrial feasibility, its performance should reach simultaneously high CO2 reduction rates, selectivity, concentration, and stability with time. The aim of this research will be to optimise process performance by studying the effect of several operating parameters, including cell potential, pH, pressure, temperature, and purity of the gaseous CO2 stream.

Progetto finanziato nell'ambito del PNRR – DM 118/2023 - CUP E14D23001860006

**Objectives**
Progetto finanziato nell'ambito del PNRR – DM 118/2023
Scientific Responsible: Onofrio Scialdone, University of Palermo, Onofrio.scialdone@unipa.it
Main seat to carry out research: Department of Engineering, University of Palermo, Palermo

**Skills and competencies for the development of the activity**
The candidate should:
- be able to work in a team as well as adapt to multicultural environments;
- have the willingness to learn new technologies and knowledge;
- have excellent communication and interpersonal skills, i.e. be able to clearly get the message across, in verbal or written speech, and be able to grasp other people’s, as well as fluent English communication;
- be highly self-motivated, eager to face new challenges and solve problems;
- know the basic knowledge of electrochemistry.