

LERU STudent REseArch Mobility Programme (STREAM)
Project proposal



Host University:
Università degli studi di Milano

Field:
Chemistry

Specified field, subject:
Electrochemistry

Research project title:
Electrochemical science and materials: from investigation methodologies to processes

Possible starting month(s):

Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
				x	x	x	x	x			

Possible duration in months:

1	2	3	4	5	6
		x			x

Suitable for students in: 1st or 2nd cycle (Bachelor or Master students)

Prerequisites: basic knowledge in electrochemistry and electrochemical instrumentation

Restrictions: none

Description:

The project covers the wide spectrum of electrochemical science and technologies, providing several training subjects for 1st and 2nd cycle students. Students can apply for: design and synthesis of (photo)electrode materials for electrocatalysis and electroanalysis, focusing on selected (i) processes, e.g. water (photo)electrolysis, metal-air batteries, waste detoxification, fuel cells; (ii) electrode reactions, e.g OER/ORR, analate detection; (iii) investigation methodologies, e.g. Scanning Electrochemical Microscopy, Quartz Crystal Microbalance, Electrochemical Impedance Spectroscopy, Cavity_MicroElectrode, together with standard electrochemical and physico-chemical techniques

Faculty or Department Department of Chemistry - Università degli Studi di Milano

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