


SUSTAINABLE MATERIALS, PROCESSES AND SYSTEMS FOR ENERGY TRANSITION

MUR DM 117/ NOVAC - Energy storage materials and processes for supercapacitors

Funded By	MINISTERO DELL'UNIVERSITA' E DELLA RICERCA [P.iva/CF:97429780584] Politecnico di TORINO [P.iva/CF:00518460019] NOVAC S.R.L. [P.iva/CF:03931860369]
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Context of the research activity	The research will take place in an innovative and dynamic environment, bridging the know-how and highly advanced expertise of the research group of Politecnico di Torino and the latest technology developed in the Novac laboratory. The activities are dedicated to the development and production of high-performance electrodes for supercapacitors using industrial fabrication processes. Progetto finanziato nell'ambito del PNRR – DM 117/2023 - CUP: E14D23002050004
Objectives	<ul style="list-style-type: none">- Industrial processes optimization and innovation introduction- Introduction of innovative technologies and validation- Scale up- Main seat to carry out the research activity: Politecnico di Torino- Secondary seat to carry out the research activity (at least 6 months): Novac s.r.l. - Modena- A period of study and research carried out abroad is foreseen
Skills and competencies for the development of the activity	The candidate must demonstrate the following skills and competencies: <ul style="list-style-type: none">- Research and innovation mindset: to demonstrate excellent theoretical and practical research skills, to be able to critically evaluate scientific literature, to demonstrate creativity and propose new idea and solutions.- Collaboration and communication: to be able to work with cross-functional teams including technical and non-technical. To be able to effectively present research findings, collaborating effectively with the supervisors.- Technical background and learning adaptability: to be able to follow the rapid evolving environment of energy storage systems staying updated with



emerging trends and techniques. To demonstrate strong technical background with understanding of industrial production processes and machinery, electrochemistry, chemical engineering, materials engineering and characterization, physics and related fields.