

ENHANCE

Project Marie Sklodovska Curie H2020-MSCA-ITN-2016

Grant Agreement No: 722496

Duration: 01-May-2017 to 30-April-2021

Project title: "Piezoelectric Energy Harvesters for Self-Powered Automotive Sensors: from Advanced Lead-Free Materials to Smart Systems (ENHANCE)"

The ENHANCE project is an interdisciplinary, structured programme to form *13 young PhD researchers* that will be hired and supervised by our partners: 7 European universities and 6 industrial partners expert in cutting-edge hybrid systems.

It is based on the multidisciplinary coordinated research activity across multiple scientific fields such as chemistry, materials science, physics, mechanics engineering and electronics.

Three positions at the University of Catania within the PhD course on Materials Science and Nanotechnology XXXIII cycle.

- ESR1: Engineering of metal-organic precursors from synthesis to mechanistic aspects
- ESR3 : Multiferroic films and nanostructures for hybrid energy harvesters
- ESR7 : Simulation and design of autonomous sensor systems and microfabrication processes.

The research will be mainly carried out at the Dipartimento Scienze Chimiche.

People involved in the project: Prof. Graziella Malandrino and Prof. Guglielmo Guido Condorelli

The Web site of the project can be accessed through the following link:

<http://www.itn-enhance.com/>