



colabs



COORDINATOR	Dr. Ana V Silva
PHD/PÓS-DOC/...	-
INSTITUTE/LAB	INESC MN
PROJECT TITLE	Implement a new magnetic measurement system
PROJECT DESCRIPTION	Assemble a new measurement system for characterization of magnetic sensors under the effect of crossed contaminating magnetic fields and high temperatures.
WORK FIELD/CONCEPTS	Devices, Sensors, Magnetoresistance, thermal measurements, electrical and magneto transport.
NUMBER OF VACANCIES	One (1)
STUDENT PROFILE	Organized; sociable; responsible; reliable; adaptable; motivated; willing to learn; good team worker; committed to the study.
REQUIRED SKILLS	Knowledge of English
OBJECTIVES	<p>Assemble a new measurement set up, by adapting the existent set-up to include :</p> <ul style="list-style-type: none"> - an 8 coil system for controlled application of magnetic field. - A localized heater that can go up to 400 °C - 4 micropositioner for electrical characterization - Full automation of the system using the more adequate language (labview, python...) <p>This work can include design and fabrication of assembling parts (CAD, CNC, tool shop ...).</p> <p>The student will be in close contact to current samples being micro fabricated in order to adapt the system to the real necessities of the lab This requires being involved with the entire team (researcher and students) and follow on their work.</p> <p>The student is then expected to deliver a short report and an oral presentation communicating the outcomes of the work developed during the project.</p>
NECESSARY EQUIPMENT	Laptop.
DURATION	18 weeks Start: March 12 Finish: June 30 th (can be extended)
RECOMMENDED SCHEDULE	Presence at least twice a week (2 afternoons = 8h)