UNIVERSITÀ DI PARMA

T14025-TRAINEESHIP at the Parma lab for NMR and Muon Spin Spectroscopy

TRAINEESHIP INFORMATION	
Department/Office	Department of Mathematical, Physical and Computer Sciences
Contact persons for this placement	Prof. Roberto De Renzi Prof. Giuseppe Allodi
Contact e- mail	internship@unipr.it
Description of activities	Experimental research on magnetism and superconductivity by means of SQUID magnetometry, broad-band nuclear magnetic resonance (NMR) and muon spin rotation (μSR). Modelling of the muon stopping site by density functional theory (DFT) as a support to the analysis of μSR experiments. A quick reference on what we do and what you could start learning is available at our web-pages: www.difest.unipr.it/PaRMa
Working language	English B2 (CEFR)
Location	Department, Physics Building
Duration (2 months minimum- 12 months maximum)	3 months (Master degree), 2-6 months (during or after PhD degree)
Working hours / week	4 hours/day per 5 days/week another 16 hours/week of individual practice/data analysis/study are envisaged Timetable to be agreed accordingly
Accommodation	The Welcome Office supports students in finding accommodation in Parma Servizio Accoglienza/Welcome Office Università di Parma Vicolo Grossardi 4 43125 Parma – Italy e-mail welcome@unipr.it

	phone: 0039 0521 904150 / 904632
Internship grant	No financial contribution. Students must apply for a Grant at their home institution/country.

COMPETENCES, SKILLS AND EXPERIENCE REQUIREMENTS

Competences required	Master level physics, or material science, including a course on condensed matter physics. Some introductory knowledge of magnetism and superconductivity is welcome, but not strictly required Alternatively some introductory level knowledge of Density Functional Calculations may also be useful, but not strictly required.
Degree (Master, PhD, Post Doc)	Master PhD

DOCUMENTS REQUIRED

Interested students must send by email asap, the following documentation:

Presentation letter X	**Curriculum Vitae X**	**Academic certificates X**
Additional notes	A personal insurance covering laboratory risks is mandatory. While Erasmus students are	already covered, non-Erasmus applicants must arrange an insurance policy on their own.