

<b>TRAINEESHIP INFORMATION</b>	
<b>Department/Office</b>	Physics and Earth Sciences
<b>Contact persons for this placement</b>	Roberto De Renzi Giuseppe Allodi
<b>Direct phone and mail</b>	<a href="mailto:roberto.derenzi@unipr.it">roberto.derenzi@unipr.it</a> , +39 0521 905258 <a href="mailto:giuseppe.allodii@unipr.it">giuseppe.allodii@unipr.it</a> , +39 0521 906311 <a href="mailto:internship@unipr.it">internship@unipr.it</a>
<b>Description of activities</b>	Experimental research on magnetism and superconductivity by means of SQUID magnetometry, broad-band nuclear magnetic resonance (NMR) and muon spin rotation ( $\mu$ SR). Modelling of the muon stopping site by density functional theory (DFT) as a support to the analysis of $\mu$ SR experiments.  <b>A quick reference on what we do and what you could start learning is available at our web-pages:</b>  <a href="http://www.difest.unipr.it/PaRMa">www.difest.unipr.it/PaRMa</a>
<b>Working language</b>	English B2 (CEFR)
<b>Location</b>	<b>Department, Physics Building</b>
<b>Number of available placements</b>	1
<b>Duration (2 months minimum-12 months maximum)</b>	3 months (Master degree), 2-6 months (during or after PhD degree)
<b>Working hours / week</b>	4 hours/day per 5 days/week another 16 hours/week of individual practice/data

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

**PERIOD: from April to December 2015**

Università degli Studi di Parma

---

	analysis/study are envisaged Timetable to be agreed accordingly
<b>Period</b>	from April to December 2015
<b>Accommodation</b>	The office supports students in finding accommodation in Parma  Erasmus and International Home- P.zzale San Francesco, 3 – 43121 Parma  e-mail: <a href="mailto:tiziana.cordaro@unipr.it">tiziana.cordaro@unipr.it</a>
<b>Internship grant</b>	No financial contribution. Students must apply for a Grant at their home institution/country.

**COMPETENCES, SKILLS AND EXPERIENCE REQUIREMENTS**

<b>Competences required</b>	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.
<b>Degree (Master, PhD, Post Doc)</b>	Master  PhD

**DOCUMENTS REQUIRED**

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

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

**PERIOD: from April to December 2015**

Università degli Studi di Parma

---

<b>Presentation letter X</b>	<b>Curriculum Vitae X</b>	<b>Academic certificates X</b>
<b>Additional notes</b>	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.	