T14023 -TRAINEESHIP AT DEPARTMENT OF PHYSICS AND EARTH SCIENCES

PERIOD: any period of the year

Università di Parma

TRAINEESHIP INFORMATION	
Department/Office	Department of Physics and Earth Sciences "Macedonio Melloni"
Contact persons	Prof. Luigi Cristofolini
Contact e-mail	internship@unipr.it
Description of activities	Characterization of structure, mechanical properties and internal dynamics of interfacial layers, using the whole suite of techniques available in our laboratories (www.fis.unipr.it/lmn). As an example, we investigate the nanostructures realized at the water surfaces by nanoparticles, alone or in conjunction with others molecules (polymers, proteins, phospholipids). Depending on interactions between nanoparticles and molecules, these nanostructures can show different structures, with fractal-like features, and/or with unusual mechanical properties and strongly non-diffusive dynamical features. Aside from the fundamental theoretical interest, these nanostructures have relevant applicative impact in the fields of material science (nanosensors and devices) and nanomedicine.
Working language	English or Italian (C1 CEFR)
Location	Viale G.P. Usberti n. 7/A 43124 – Parma - Italy
Number of available placements	2
Duration (2 months minimum-12 months maximum)	6
Working hours / week	Timetable to be agreed accordingly
Period	To be agreed – Any period of the year
Accommodation	The office supports students in finding accommodation in Parma

	U.O. Accoglienza e Orientamento 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	Basic laboratory skills. Basic chemistry laboratory experience is a useful (but not required) asset.
Degree (Master, PhD, Post Doc)	Master degree in Physics, or in Chemistry, or in Material Science

DOCUMENTS REQUIRED

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

Presentation letter X	**Curriculum Vitae X**	**Academic certificates X**
Additional notes	If the Sending Institution does not provide a fully comprehensive insurance (experimental work included), the student himself/herself must take out a personal one that covers also laboratory activities.	

PLEASE MENTION THE TRAINEESHIP NUMBER WHEN YOU APPLY