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## Placement Offer Form

### SLOVENIA

CMEPIUS, Ob železnici 30 a, 1000 Ljubljana, Slovenia

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EMPLOYER INFORMATION	
Name of organization	Jožef Stefan Institute
Address	Jamova cesta 39
Postal Code	1000
City	Ljubljana
Country	Slovenia
Telephone	+386 1 477 3936
Fax	+386 1 477 3887
E-mail	hana.ursic@ijs.si
Website	<a href="http://www.ijs.si/ijsw/V001/JSI">http://www.ijs.si/ijsw/V001/JSI</a>
Number of employees	900
Year of foundation	1949
Contact person	Dr. Hana Uršič
Department / Function	Electronic Ceramics Department K5
Direct telephone number	+386 1 477 3936
Direct mobile	+386 051 30 51 54
Direct e-mail address	hana.ursic@ijs.si
Short Description of the	The Jožef Stefan Institute is the main research institute in Slovenia. It gathers more than 800 employees within several

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[www.cmepius.si](http://www.cmepius.si)

<b>Company</b>	<p>research departments in physics, chemistry, electronics, energetics etc. The Jožef Stefan Institute has collaborations with national and international companies and universities.</p> <p>The Electronic Ceramics Department is active in the field of synthesis, properties and applications of ceramic materials for electronics and energetics including mainly piezoelectrics, ferroelectrics, relaxors and conductive oxides. At the department, the studies focus mainly bulk materials, thick and thin films and printed structures prepared from lead-based as well as lead-free materials.</p>
<b>Other</b>	

<b>PLACEMENT INFORMATION</b>	
<b>Department / Function</b>	Electronic Ceramics Department K5, Jožef Stefan Institute <a href="http://www-k5.ijs.si/">http://www-k5.ijs.si/</a>
<b>Description of activities</b>	<p>The work will be focused on the study of domain structure and the local conduction of different ferroelectric and relaxor materials. In order to characterize these materials, the piezo-response force microscopy (PFM) and conductive atomic force microscopy (CAFM) will be used for providing the information about the domain structure and local conduction of the selected samples. The study is interesting and scientific.</p> <p>The aims of the internship job will be 1) to understand the basic principles of the atomic-force, piezo-response force and conductive atomic-force microscopes, 2) learn how to use these techniques and 3) characterize some selected materials by them.</p>
<b>Duration</b>	at least 3 months, if possible more, first possible start date: 15 <sup>th</sup> August 2015
<b>Working hours / Weekly hours</b>	8 hours/ day 40 hours/week
<b>City</b>	Ljubljana
<b>Help with finding Accommodation</b>	yes
<b>Financial Contribution</b>	no
<b>Other</b>	

<b>LANGUAGE REQUIREMENTS<sup>1</sup></b>				
Language	Listening	Reading	Writing	Speaking
English	2	2	2	2
German				
French				
Italian				
Spanish				

<b>ICT REQUIREMENTS</b>	
requirement	Expertise level <sup>2</sup>
Master student of chemistry, physics, material science or some related studies	
Student from EU countries	
Duration time at least 3 month, preferable even more, if possible	

<b>OTHER REQUIREMENTS</b>	
<b>Driver's license</b>	Not needed
<b>Other</b>	<p>Master student of chemistry, physics, material science or some related studies</p> <p>The applicant needs to be interested in characterization of new materials and motivated to work on high level scientific research in the area of piezoelectric and ferroelectric materials. The previous knowledge on the AFM technique is not needed; all the training will be provided at the host institute, however high motivation and interest of the applicant in such type of scientific work is required.</p>

<sup>1</sup> Required language skills are rated from 1 to 3:

- 1 - basic level
- 2 - intermediate level
- 3 - proficient level

<sup>2</sup> ICT skills are rated with 3 levels of expertise:

- Basic level
- Intermediate level
- Proficient level