The students from Chemical, Physics, Material science, or some other technical backgrounds, who would like to do the internship with Erasmus+ at Jožef Stefan Institute, Electronic Ceramics Department in Ljubljana, Slovenia, can apply to the following email.

**Asst. Prof. Dr. Hana Uršič**

Electronic Ceramics Department

Jozef Stefan Institute Jamova 39

SI-1000 Ljubljana Slovenia

Phone: +3861 477 3936

E-mail: [hana.ursic@ijs.si](mailto:hana.ursic@ijs.si)

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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](mailto:hana.ursic@ijs.si) |
| **Website** | <http://www.ijs.si/ijsw/V001/JSI> |
| **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](mailto:hana.ursic@ijs.si) |
| **Short Description of the Company** | The Jožef Stefan Institute is the main research institute in Slovenia. It gathers more than 800 employees within several research departments in physics, chemistry, electronics, energetics etc. The Jožef Stefan Institute has collaborations with national and international companies and universities.  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. |
| **Other** |  |

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| **PLACEMENT INFORMATION** | |
| **Department / Function** | Electronic Ceramics Department K5, Jožef Stefan Institute  <http://www-k5.ijs.si/> |
| **Description of activities** | 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.  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. |
| **Duration** | at least 3 months, if possible more, first possible start date: 15th August 2015 |
| **Working hours / Weekly hours** | 8 hours/ day  40 hours/week |
| **City** | Ljubljana |
| **Help with finding Accommodation** | yes |
| **Financial Contribution** | no |
| **Other** |  |

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| **OTHER REQIUREMENTS** | |
| **Driver’s license** | Not needed |
| **Other** | Student of chemistry, physics, material science or some related studies  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. |