



**Call for 2015 Spring Masters and Doctoral Scholarships
At Nano Surface Engineering and Tribology Laboratory**

Recruiting Details: M.S., Combine and Ph.D. course students (starting from 2015 Spring Semester) at Nano Surface Engineering and Tribology Laboratory, University of Ulsan (Ulsan).

- Description:** Two positions for graduate students are available for the research on the following subjects:
 - Tribological characterization of nanomaterials (e.g. nanowires, graphene, MoS₂...) using Atomic Force Microscopy (AFM)
 - Nanomechanics of functionalized nanomaterials (e.g. nanowires or graphene).
 - Electromechanical response characterization of piezoelectric materials using Piezoresponse Force Microscopy (PFM) (e.g. PZT thin films, PVDF polymers...)

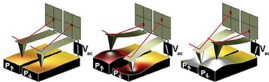


Figure: Depiction of PFM operation. The sample deforms in response to the applied voltage. (Akyum Research)

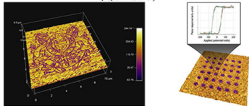


Figure: ULSU logo (right) written and synthesized loops (left) on a PZT thin film by PFM lithography and Switching Spectroscopy PFM (Akyum Research).

These positions will be supported by the research projects of Prof. Kwon-Hyun Chung, funded by the National Research Foundation of Korea and Hyundai Heavy Industry Co. The detailed information about research topics and the publications can be accessed via the website of the **Tribology Research Laboratory at University of Ulsan**. (<http://home.ulsan.ac.kr/trl>)

- Eligibility/Requirements:** An applicant must have an undergraduate or master degree granted in mechanics or materials science or must be able to complete such a degree before starting the appointment. Applicants should have TOEIC score higher than 600 or equivalent status.
- Scholarships:** Successful applicants will receive AF-1 scholarship (100 % of Tuition Fee) and a financial support of about 600,000 won per month. More details might be offered personally on requests. For more details, please visit the scholarship website of University of Ulsan via <http://global.ulsan.ac.kr/Contents/admissions/graduate/scholarship/>
- Inquiries and applications should be addressed via email to:**
 - Prof. Kwon-Hyun Chung**
E-mail: khchung@ulsan.ac.kr
Tel: +82-52-259-2744, Fax: +82-52-259-1680
 - Tran K. B. Cuong** (Recommended, alumni from HCMUT, Material Science HCMUT)
E-mail: tranbkcuong@gmail.com
Tel: +82-10-2181-1412

How to apply: Applicants should send:

- Curriculum Vitae
- Certificate of Bachelor's degree (and certificate of Master's degree for Ph. D. degree applicants)
- Transcript for Bachelor's course (and transcript for Master's course for Ph.D. degree applicants)
- Certificate of English Language Skills

For more information please visit:

School of Mechanical Engineering: <http://home.ulsan.ac.kr/trl>
University of Ulsan: <http://global.ulsan.ac.kr/Contents/admissions/graduate/scholarship/>