



**Graduate Program in Materials Science and Engineering
Call for Applications for AY2012**

Professor **Kazuhiro Hono's** group at the National Institute for Materials Science (NIMS) has a few openings for Ph.D. and MS students with the NIMS graduate research assistantship for the academic year 2012 starting from either April or August 2012. Students in either materials science or applied physics who expect to complete a bachelor or master degree before April or August 2012 are now qualified to apply. Japanese speaking ability is **not** required, but candidates must have a good command of English. All accepted students will be awarded the **NIMS Graduate Research Assistantship** which will cover the tuition and stipend for their five year MS+Ph.D. or three year Ph.D. course in the Materials Science and Engineering Program, Graduate School of Pure and Applied Physics at the **University of Tsukuba**. The students starting from the MS course take courses in English at the university. The group has a truly international environment. The students who are interested in the following three areas are welcome to apply.

Magnetic and spintronic materials: Development of materials for magnetic recording media and read sensors of ultrahigh density hard disk drives. Improvement of hard and soft magnetic materials for energy and environmental conservations. Background in materials science, electrical engineering or applied physics is desirable.

Structure-property relationships of magnesium alloys

Students in metallurgical engineering and/or materials science who are interested in working in the development of age hardenable high strength wrought magnesium alloys and their structure-property relationships by transmission electron microscopy (TEM) and three dimensional atom probe (3DAP). Background in metallurgical engineering is desirable.

Nanostructure characterization by 3DAP and TEM: Nanostructure characterization of various materials and devices (metals, ceramics and semiconductors) using state of the art laser-assisted three dimensional atom probes (3DAP) and transmission electron microscopy including instrumentation. Background in materials science, applied physics or solid state chemistry is desirable.

Application deadline is June 3, 2011. For more information, visit the following web sites:

<http://www.nims.go.jp/apfim/>

<http://www.nims.go.jp/graduate/english/index.html>

contact:

Prof. K. Hono(kazuhiro.hono@nims.go.jp)

Magnetic Materials Unit

National Institute for Materials Science and University of Tsukuba

1-2-1 Sengen, Tsukuba 305-0047, Japan