



**Graduate Program in Materials Science and Engineering
Call for Applications for AY2011 in magnetic and spintronics materials**

The **Magnetic Materials Center** at **NIMS** has a few openings for Ph.D. and MS students with the NIMS graduate research assistantship for the academic year 2011 starting from either April or August 2011. Students in either materials science or physics who expect to complete a bachelor or master degree before the starting dates (either April or August 2011) are 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 two year MS 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 can take courses in English at the university. The center has a truly international environment. The students who are interested in the following three areas are welcome to apply.

Magnetic and spintronic materials (Prof. K. Hono): 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 solid state physics or materials science is required.

Spintronics devices (Prof. S. Mitani): Development of spintronic devices and magnetic nanostructures for new phenomena and functionalities in magnetics and electronics. The underlying physics on spin-dependent transport and magnetization dynamics etc. is also studied. Background in solid state physics or materials science is required.

Nanostructure characterization by 3DAP and TEM (Prof. K. Hono): Nanostructure characterization of various inorganic materials (metals, ceramics and semiconductors) using laser-assisted three dimensional atom probe (3DAP) and transmission electron microscopy including instrumentation. Background in materials science, physics or chemistry is desirable.

For more information, visit the following web sites:

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

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

contact:

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Magnetic Materials Center

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