National Institute for Materials Science & University of Tsukuba

Graduate Program in Materials Science and Engineering
Call for Applications for AY2016

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 2016 starting from either April or October 2016. Students in either materials science or applied physics who expect to complete a bachelor or master degree before April or August 2016 are eligible 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 stipend for two year MS and/or three year Ph.D. course in the Materials Science and Engineering Program, Graduate School of Pure and Applied Sciences 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 recording media: Development of FePt-C based magnetic recording media for next generation ultrahigh density magnetic recording media using thin film processing and structure characterization by TEM. Background in materials science, electrical engineering or applied physics is desirable.

Magnetoresistive devices: Development of high output magnetoresistive sensors using half-metallic Heusler alloys for potential applications to read sensors of hard disk drives and magnetic sensors. Background in materials science, electrical engineering or applied physics is desirable.

Rare earth permanent magnets: Development of high performance rare-earth permanent magnets through studies on microstructure-coercivity relationships using SEM, TEM and atom probe tomography. Background in materials science is desired.

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

Application deadline is July 1, 2015. For more information, visit the following web sites:

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

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