Research Fellow Position in Magnetic Nanolayers and Nanostructures - group of PD Dr. habil. Amitesh Paul (RF-2020001)

Description
The Materials and Science Engineering Program (group of Paul) is looking for 1 scientist to lead experimental research projects in magnetic nanolayer materials related to fundamental aspects of interface magnetism. Contract duration: 2 years.

Project Details
Modern facilities for the growth of thin film samples using ultrahigh vacuum sputtering and atomic layer deposition as well as state-of-the-art laboratory thin film characterization tools (X-ray diffraction, X-ray reflectometry, SQUID magnetometry, TEM) will be available. Our group extensively uses leading international Quantum Beam facilities (neutron/synchrotron science facilities and ion beam accelerators) as major research tools. Our specialty technique is polarized neutron reflectometry, small-angle-scattering in specular and off-specular modes and X-ray absorption. We work in a collaborative international environment.

Keywords
Magnetic nanostructures, multiferroics, magnetic oxide films, stress/defect engineering of novel physical properties, electronic/structural instabilities or phase transitions in magnetic thin films, polarized neutron/X-ray reflectometry.

Selection Criteria
– PhD degree in Physics or Material Science (essential)

– Strong background in condensed matter physics (preferable)

– Strong interest in thin film deposition and/or structural/magnetic characterization (essential)

– Strong interest in polarized neutron reflectometry and/or polarized synchrotron spectroscopy (essential)

– Strong interest to work temporarily at large-scale research facilities in China, Europe, United States, Japan and/or Australia (essential)

– Good communication skills, good command of English (essential)

– Ability to work independently as well as in a team environment (essential)

– Ability to author scientific reports and scientific publications (essential)

Benefits
– Salary range: up to $49,000 / year (depending on qualifications of the candidate)

– Subsidized housing at GTIIT, China

– Health insurance: regular cover for Chinese citizens or private health insurance
for foreigners

– Professional conference travel allowance

Application
– Application deadline: Open till filled

– Send below required documents electronically to: amitesh.paul@gtiit.edu.cn

1. Curriculum vitae and personal statements
2. A publication list
3. Three letters of recommendation (one from the mentor for PhD and/or Master’s studies)
4. A short research plan outline (up to one page in length)
5. Degree certificates with certified English translation for both the PhD and Master’s degrees