

Research, Innovation and Graduate Studies

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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

Position

Research Fellow (Postdoctorate)

Program

Materials Science and Engineering Program

Research Area

Magnetic Nanolayer Materials
Related to Fundamental Aspects of
Interface Magnetism

Contacts

PD Dr. habil. Amitesh Paul

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[Web Page Link](#)

Application Deadline

Open till filled

Date Posted

02 March 2020

- 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