

Research, Informatics and Graduate Studies

<https://sites.gtiit.edu.cn/research/positions/rf-2018014/>

Research Fellow/Postdoctor Position in Surface Chemistry- Group of Prof. Kai Huang (RF-2018014)

Description

The Chemistry Program (group of Prof. Kai Huang) is looking for 1-2 Research Fellows/Postdoctors (experimentalist) to lead the research activities in surface chemistry, using the state-of-the-art scanning probe microscopy (SPM) apparatus. We aim at the detailed understanding and the control of the behaviors of atoms and molecules at solid surfaces, shedding light on its applications in catalysis, energy, material and health sciences.

Contract duration: 2 years (renewable)

Project Details

At GTIIT, the Huang laboratory is dedicated to study physics and chemistry at solid surfaces, by ultra-high vacuum SPM (experiment), and followed by first principles computations (theory). Of particular note, our expertise centers at the control of surface dynamics to fabricate, characterize and understand novel surface materials for applications in catalysis, energy, material and health.

The research topics of our current interest are sketched below:

- Surface chemistry of radioactive film materials
- Chemical characteristics at oxide surfaces
- Single-atom catalysis at alloy surfaces

Keywords

- Physics and Chemistry at Solid Surfaces
- Novel surface materials for Catalysis, Energy, Material and Health Application
- Scanning Probe Microscopy and Spectroscopy
- First-principles Computations

Selection Criteria

- PhD degree in Chemistry (physical chemistry oriented), Physics (condense matter oriented) or equivalent (essential)
- Good knowledge and strong interest in surface chemistry (essential)
- Strong experimental capability (essential)
- Experience with cryogenics and high-vacuum facility (preferable)
- Good communication skills, good command of English (essential)
- Ability to work independently as well as in a team environment (essential)

Position

Research Fellow/Postdoc

Program

Chemistry

Research Area

Surface Chemistry

Contacts

Kai Huang

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[Web Page Link](#)

Application Deadline

Open till filled

Date Posted

Oct. 17, 2018

- 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: kai.huang@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