

Research Fellow (Materials Science/Materials  
Chemistry/Chemical Engineering)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=236534>

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Posted May 24, 2024, set to expire Apr. 1, 2025

<b>Job Title</b>	Research Fellow (Materials Science/Materials Chemistry/Chemical Engineering)
<b>Department</b>	Asian School of the Environment
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	May 24, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Professional Staff
<b>Academic Field(s)</b>	Sciences - General
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Materials-Science-Materials-Chemistry-Chemical-Engineering-_R00017275-1">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Materials-Science-Materials-Chemistry-Chemical-Engineering-_R00017275-1</a>

**Apply By Email**

**Job Description**

We are currently recruiting **two** experienced Research Fellows who will join the laboratory of Professor Simon Redfern at the Asian School of the Environment, Nanyang Technological University (NTU), to work closely with the lead PI to build the experimental programme, maintain instruments and coordinate with the international community.

**Key Responsibilities:**

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- Develop laboratory experiments to synthesise and study materials at extreme temperatures, pressure and under controlled chemical environments
- Prepare literature surveys to outline research / technology development in the field
- Employ and develop experimental methods using high-temperature furnaces, one atmosphere gas-mixing furnaces, diamond anvil cells as well as piston cylinder apparatus
- Characterisation and analysis methods will include FTIR and Raman spectroscopy, EPMA, electron microscopy, X-ray diffraction and XAS, and allied techniques, using both in-house and international synchrotron and neutron sources
- Participate in research program, including research experiments and data collection
- Prepare reports and documentations for the research programs, and support data analysis
- Assist in duties related to lab safety, documentation, training of student researchers and outreach

**Job Requirements:**

- PhD degree in Materials Science, Materials Chemistry or Chemical Engineering
- Proficiency in either Diamond Anvil Cell (DAC) high pressure experiments or Large Volume Press (LVP) high pressure experiments
- Evidence of published output in relevant scientific literature
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Basic understanding of the scientific principles behind the research activities

- Attention to detail and procedures
- Effective communication and report writing skills
- Willingness to learn and develop new skills

We regret to inform that only shortlisted candidates will be notified.

### **Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

#### **Contact**

Asian School of the Environment  
Nanyang Technological University  
Singapore