

Research Assistant (Sludge Gasification and Resource Recovery)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=252157>

Downloaded On: Jan. 30, 2025 8:16pm

Posted Jan. 27, 2025, set to expire May 28, 2025

<b>Job Title</b>	Research Assistant (Sludge Gasification and Resource Recovery)
<b>Department</b>	Nanyang Environment and Water Research Institute
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	Jan. 27, 2025
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Research Scientist/Associate Professional Staff
<b>Academic Field(s)</b>	Materials Sciences/Polymer Sciences Chemistry - General
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Assistant--Sludge-Gasification-and-Resource-Recovery-_R00019658">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Assistant--Sludge-Gasification-and-Resource-Recovery-_R00019658</a>

**Apply By Email**

**Job Description**

Globally ranked among top research and technology organizations in the environment and water domain, the NTU's Nanyang Environment and Water Research Institute (NEWRI) ecosystem interacts across a multi- and inter- disciplinary platform of "Research – engineering – Development "(RED) activities in its approach to developing innovative solutions.

With leading edge technology and robust engineering, NEWRI strives to take its fundamental research from novel lab-scale innovation to industry-level translation and derisking activities - from field

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applications to piloting and development at full scale in real life settings. Through industrial and community- philanthropic projects for commercial and societal impact, NEWRI continuously strives to make a difference towards developing a circular economy for global sustainability.

For more details, please view <https://www.ntu.edu.sg/newri>.

We are looking for a Research Assistant to support the research for the project titled: Long-term trial of high-temperature sludge gasification and investigating the use of sludge slag in structural concrete applications. The role will focus on providing support to the development, experimentation, data collection and troubleshooting for resource recovery from waste residues and ashes, metals recycling and extraction through molten salt electrolysis and other methods, renewable phosphorus extraction and application. The suitable candidate will become a part of a vibrant team addressing Singapore's challenges in waste and resource management and contribute to promote Singapore as a zero-waste circular economy smart city hub.

**Key Responsibilities:**

- Work synergistically with the team members and assist the PI and Co-I in experimental designs, conducting experiments, and troubleshooting.
- Assist in project management and summarize the findings in this project and produce the progress reports, final report and scientific recommendations.
- Support to the development, experimentation, data collection and troubleshooting for resource recovery from waste residues and ashes, metals recycling and extraction through molten salt electrolysis and other methods, renewable phosphorus extraction and application

**Job Requirements:**

- Bachelor's degree (B.Eng./B.Sc.) in Chemistry, Chemical Engineering, Materials Science, Materials Engineering, Environmental Engineering or related field
- Hands-on experience with experimental works in laboratory, analytical testing, metals recovery

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techniques, and wastes treatment processes.

- Good written and oral communication skills
- Excellent teamwork awareness with good interpersonal skills.
- Productive, hard-working and dedicate to the completion of any task assigned.
- Entry level candidates are welcome to apply

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**

Nanyang Environment and Water Research Institute  
Nanyang Technological University  
Singapore