

Research Assistant / Post-Doctoral Fellow - Remote  
Sensing

Hong Kong University of Science and Technology

Direct Link: <https://www.AcademicKeys.com/r?job=245683>

Downloaded On: Sep. 27, 2024 1:17am

Posted Sep. 24, 2024, set to expire Jan. 24, 2025

<b>Job Title</b>	Research Assistant / Post-Doctoral Fellow - Remote Sensing
<b>Department</b>	Department of Civil and Environmental Engineering <a href="https://ce.hkust.edu.hk/">https://ce.hkust.edu.hk/</a>
<b>Institution</b>	Hong Kong University of Science and Technology Hong Kong, , China
<b>Date Posted</b>	Sep. 24, 2024
<b>Application Deadline</b>	Oct. 15, 2024
<b>Position Start Date</b>	Nov. 30, 2024
<b>Job Categories</b>	Post-Doc Research Scientist/Associate
<b>Academic Field(s)</b>	Water Resources Engineering Sustainable Engineering Robotics Mechanical Engineering Electrical and/or Electronics Computer Science Civil Engineering
<b>Job Website</b>	<a href="https://www.itf.gov.hk/en/funding-programmes/nurturing-talent/research-talent-hub/research-talent-hub-for-itf-projects-rth-itf/index.html">https://www.itf.gov.hk/en/funding-programmes/nurturing-talent/research-talent-hub/research-talent-hub-for-itf-projects-rth-itf/index.html</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

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**Job Type:** Full-time, on-site

**Location:** [Department of Civil and Environmental Engineering](#), Hong Kong University of Science and Technology (HKUST), Hong Kong

**Category:** Research, Remote Sensing, Water-food-energy Nexus, AI

### About our Team

The Department of Civil and Environmental Engineering at the Hong Kong University of Science and Technology is focused on advanced research in the field of civil and environmental engineering, particularly in:

1. **Hydraulics and Urban Water Systems**
2. **Machine Learning Applications**
3. **Smart Water Infrastructure and Smart Cities**
4. **Sustainable Development**
5. **Climate Change, Water Footprint, and Water Scarcity**

### About the job

We are seeking several skilled **Research Assistants** or **Post-Doctoral Fellows** to join our team. The selected candidates will engage in projects funded by the Research Talent Hub (RTH) and will collaborate with a dynamic team of researchers, offering excellent opportunities for career growth. Strong coding, modeling, and communication skills are essential.

### Areas of Interest

We are particularly interested in candidates with expertise in the following fields:

1. **Computer Vision:** Knowledge of computer vision and image processing applied to water resources. Experience in image and signal processing.
2. **Remote Sensing:** Experience in software and hardware development related to water resources. Familiarity with tools like ArcGIS and Google Earth is a plus.
3. **Water-food-energy Nexus:** Familiarity with the interconnectedness of these critical areas, emphasizing sustainable resource management.
4. **Hydrologic Modeling:** Strong knowledge of hydrologic modeling, particularly with WRF-Hydro

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and the National Water Model. Familiarity with the NextGen framework as well as knowledge of climate and water resources in arid and semi-arid regions is a plus.

### Qualifications

1. **Educational Background:** PhD degree (for postdoc position or RA) or MPhil/Master's degree (for RA) in relevant fields such as Water Resources, Hydraulics, Remote sensing, Civil Engineering, Computer Science Engineering, Mechanical/Robotics Engineering, Physics, Applied Mathematics, Civil Engineering, or Electrical Engineering. PhD or MPhil student positions may be considered depending on the applicant's background.
2. **Language and Communication Skills:** Excellent spoken and written English skills are essential as you will be working with multicultural teams. The ability to engage effectively and respectfully in communication at all levels is a key requirement.

### What We Offer:

The starting salary will be attractive and commensurate with qualifications and experience. Salaries are structured according to the Research Talent Hub (RTH) guidelines.

RTH prioritizes local graduates from Hong Kong and those who graduated from the top 100 Universities to apply. If you do not hold a degree from Hong Kong or a Top 100 University, accreditation verification is required. Please apply <https://www.itf.gov.hk/en/funding-programmes/nurturing-talent/research-talent-hub/research-talent-hub-for-itf-projects-rth-itf-/index.html> (see note below) for the accreditation process.

### How to Apply:

To express your interest in this specialized role, please submit your **CV** and **QS University Ranking** (Refer: <https://www.dropbox.com/scl/fi/x0xupyozfn8mpwikan2ct/template-QS-ranking.docx?rlkey=tyano74cyg7ynvz3jeqr8njfc&st=g3q2vwgc&dl=0>) to:

**Dr. CHENG Shu**

Email: [cheng.shu228@gmail.com](mailto:cheng.shu228@gmail.com)

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**Contact Information**

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

**Contact**

Department of Civil and Environmental Engineering  
Hong Kong University of Science and Technology  
Hong Kong  
China