



Postdoctoral Positions at UNSAT Lab, Hunan University

JOB DESCRIPTION

The UNSAT Lab (chaozhanghnu.github.io) directed by Prof. Chao Zhang in the College of Civil Engineering at Hunan University invites applications for postdoctoral research positions. We aim to understand physics for fundamental soil behaviors and how it shapes Earth and engineering systems at larger scales through the lens of artificial intelligence. Current research interests include:

- **Physics for phase change in porous media:** Freezing and melting; Vapor sorption and capillary condensation; Nucleation and crystallization; Stable isotope fractionation.
- **AI for climate-induced geohazards:** Permafrost degradation and landslide; Rainfall-Induced Landslide; Soil salinization.
- **AI for Tunneling:** Big data for tunnelling; Coupled dynamics of shield and TBM; Intelligent recognition of ground type; AI algorithms for control of tunnelling process.

SALARY AND BENEFITS

- Hexi Postdoctoral Scholar Program: Up to 540,000 RMB/Year
- Key-Supported Postdoctoral Position: 240,000 RMB/Year
- Standard Postdoctoral Position: 160,000 RMB/Year

Additional Financial Support

Eligible candidates may receive municipal living and home-purchase subsidies (RMB 130,000–220,000), provincial subsidies, and additional talent recruitment incentives of up to RMB 300,000.

Other Benefits

Opportunities for Associate Researcher qualification and access to university-affiliated educational resources for children.

REQUIREMENTS

- Applicants should be under 35 years of age, have obtained their Ph.D. within the past three years, and hold a degree in civil engineering, mechanics, physics, computer science, artificial intelligence, robotics, or a closely related field.
- Applicants should demonstrate strong research potential, have a track record of publications in reputable peer-reviewed journals, and be committed to full-time postdoctoral research.

HOW TO APPLY

Interested candidates can submit the following materials via email to Prof. Chao Zhang (chao_zhang@hnu.edu.cn):

- Curriculum vitae
- Brief research statement (less than two pages)
- Representative publications

Application Deadline: 31 December 2026

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