

Ph.D. Students and Postdocs in Imaging and Inversion Harbin Institute of Technology

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Posted Jun. 16, 2025, set to expire Oct. 15, 2025

Job Title Ph.D. Students and Postdocs in Imaging and

Inversion

Department Department of Astronautical Science and Mechanics

Institution Harbin Institute of Technology

Harbin, Heilongjiang, China

Date Posted Jun. 16, 2025

Application Deadline Open until filled

Position Start Date Available Immediately

Job Categories Graduate Student

Post-Doc

Academic Field(s) Physics - General

Mathematics/Applied Mathematics

Geology - Geophysics

Geology/Geosciences - General

Earth Sciences

Apply By Email

Job Description

We are recruiting **Ph.D. students** and **Postdoctoral Researchers** in Imaging and Inversion!

I'm Dr. Jiaze He, a tenured professor in the School of Astronautics and a Deputy Director at the International Center for Applied Mechanics at the **Harbin Institute of Technology** (HIT) in China. I warmly invite you to **join my group** (Lab for Computational Imaging and Smart Measurements) as a **Ph.D. student** (English-taught program in Mechanics) or a **Postdoctoral Researcher** in the School of Astronautics.



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Before joining HIT, I served as a tenure-track assistant professor in the Department of Aerospace Engineering and Mechanics at the University of Alabama, a postdoctoral research associate in the Theoretical & Computational Seismology group at **Princeton University**, a research scholar at **NASA LaRC**, and an adjunct assistant professor in MAE at NCSU. I have led numerous national-level research projects in both the U.S. and China. I serve on the ASME NDPD Executive Committee, the SAE AMS K Committee, and is the Chair of the Congress-Wide Symposium on NDE & SHM at ASME IMECE. I am the recipient of the 2024 ASME SMASIS SHM Technical Committee Best Paper Award, the 2025 Smart Materials and Structures Emerging Leader Award, and the Best Paper Award at the 11th IWSHM.

My lab develops and implements cutting-edge computational ultrasonic imaging methods. Because of recent advancements in high-performance computing and quantitative imaging methods, our group will take the opportunity to push the limits on structural, material, and medical applications. We have fully-funded **Ph.D. openings** and **Postdoctoral openings** in the area**ofComputational Imaging and Inverse Problems.**

Background:

Applied mechanics, acoustics, geophysics, biomedical imaging, or related fields

Required Skills:

- Inverse problem modeling and numerical optimization
- Wave simulation using finite difference or spectral methods
- Proficiency in Python or MATLAB
- Familiarity with imaging reconstruction or forward-adjoint frameworks
- Experience with deep learning-based inversion is a plus

Our group members must pay attention to details, strive for improvement, and nourish lasting enthusiasm.

Related information:

- HIT is ranked #5th by US News for the Best Global Universities for Engineering.
- Our Mechanics program is ranked Number 1 in China in the newest ranking!
- My research website: http://homepage.hit.edu.cn/hejiaze
- A Scholarship covers the tuition fee, on-campus dormitory, medical insurance, and monthly living allowance. More requirements and information regarding our program and the scholarship can be found here (http://en.hit.edu.cn/admissions/doctoral).



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 Harbin is a vibrant city with an international ambiance. Feel free to take a look at this video: https://www.bilibili.com/video/BV1sf4y1y7A4/?share_source=copy_web&vd_source=d9a8e05ddf4be4ba

Interested candidates are encouraged to contact Prof. Jiaze He (<u>jiazehe@hit.edu.cn</u>) with a CV and brief description of research interests before applying.

Contact Information

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

Contact Jiaze He

Department of Astronautical Science and Mechanics

Harbin Institute of Technology

Harbin, Heilongjiang

China

Contact E-mail jiazehe@hit.edu.cn