Postdoctoral research fellow on fluid mechanics
Beijing Institute of Technology

Job Title	Postdoctoral research fellow on fluid mechanics
Department	Advanced Research Institute of Multidisciplinary Science
	https://arims.bit.edu.cn/xztd/qkjs/6efa2e302d4f4c1bbead134b76a25579.htm
Institution	Beijing Institute of Technology
	Beijing, Beijing, China
Date Posted	Mar. 11, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Post-Doc
Academic Field(s)	Mechanical Engineering
	Computer Science
	Aerospace/Aeronautical/Astronautics
Apply By Email	maoxuerui@sina.com
Job Description	

Job specification

Prof. Xuerui Mao's research group at Beijing Institute of Technology (BIT) is seeking highly motivated and enthusiastic postdoctoral researchers in the field of fluid mechanics, computer science, and machine learning.

The duty of the role is within the range of: 1) conduct numerical simulations and modelling of various fluid phenomena, 2) develop and implement novel ROM or algorithms on physics-informed learning of functions for data obtained from CFD simulations or experiments, 3) attending academic conferences and writing reports, proceedings and journal papers, 4) co-supervising graduate and undergraduate students.

The selected candidates will receive an annual salary of up to 375K RMB (Beijing campus) or 520K RMB (Jiaxing campus) depending on the experience and track record. The group will also provide research funding, additional subsidies and bonuses depending on research performance. The University offers one-bedroom accommodation within the campus costing 1200 RMB per month. These positions have a duration of two years, and outstanding candidates will be considered for faculty positions near the end of the term.

Introduction to the research group

The research group comprises a multi-disciplinary team with on-going research activities across fundamental and applied fluid mechanics and data science, including data assimilation, modal analysis, icing/de-icing, fluid-solid interaction, and computational simulation and modelling of various flows. In addition, it maintains extensive collaborations with overseas universities, e.g., Imperial College London, University of Nottingham, Oxford University, KTH, Johns Hopkins University. There are regular mutual exchanges of researchers for each of the topic above. The group has been funded by research councils and major industries in aerospace engineering and energy in the UK, EU and China. More information of the group can be found at https://mao-lab.com.

BIT is located in the centre of Beijing, and despite its compact size, it belongs to the first groups of national higher education projects "211" and "985", among a few other esteemed universities. For international candidates, the university and the group will offer compressive support for accommodation and integration into campus life, and it is totally comfortable to speak English in the campus.

Requirements:

1. A PhD degree in applied mathematics, engineering (Mechanical, Aerospace, and computer science), or equivalent fields.
2. Publication record in top journals.
3. Capacity to communicate fluently in English.
4. Experiences on programming, analytical modelling, high-performance-computing, and machine learning will be appreciated.

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Outstanding candidates are invited to send (1) Covering letter (2) CV and (3) two references to maoxuerui@sina.com

Contact Information

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

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