Research, Informatics and Graduate Studies

https://sites.gtiit.edu.cn/research/positions/guangdong-technion-israel-institute-of-technology-job-post-research-fellow-vikrant-guptaa-research-group-2/

Guangdong Technion-Israel Institute of Technology Job Post – Research Fellow (Vikrant Gupta's Research Group)

Position
Research Fellow (Postdoctoral)

Program
Mechanical Engineering Robotics

Contact
Assoc. Prof. Vikrant Gupta

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Webpage: Personal Webpage

Application Deadline
Open till filled

Location
Guangdong Technion – Israel Institute of Technology (GTIIT), China

Description

Position Title: Research Fellow (Postdoctoral)

Department: Mechanical Engineering Robotics

Report to: Vikrant Gupta

Start Date: 26-04-01

Type of Position: Full-time

Number of Hiring: 1

Position Description:

The postdoctoral research fellow will focus on developing CFD capabilities for simulating wind farms under diverse wind flow conditions, including varying stratification and Coriolis effect, for farms in offshore and hilly regions. The candidate will collaborate with team members to analyze wind farm flows, develop wake models, integrate these models with mesoscale weather prediction systems for real-time applications, and design control strategies to optimize wind farm layout and operation.

Duties and Responsibilities:

- Development of simulation capabilities for wind farm digital twins in complex environments
- Publish work in high impact journals and present at reputed international conferences
- Support graduate students in the research group
- Maintain GPU clusters in the group and help with procuring new clusters
- Help the PI with other research tasks

Required Job Specifications

- Required qualification / academic degree: PhD in computational fluid dynamics and related area.
- Required experience: Experience in high performance computing is a must. Experience in boundary layer simulations, and GPU computations are desirable.

Required Job Competencies:

- Language ability:C, C++, and Fortran.
- Proven publication track record.
- Ability to work in a team.

Application Details

Please send your CV with a cover letter to vikrant.gupta@gtiit.edu.cn in the format of name + position (post ID). Only qualified candidates will be contacted.