
POSITION OF RESEARCH FELLOW

INSTITUTE OF FLUID SCIENCE, TOHOKU UNIVERSITY, JAPAN

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Job type

Research Fellow (postdoctoral researcher)

Affiliation

Institute of Fluid Science, Tohoku University

Start date:

April 2023

Deadline:

Until filled

Job summary

Applications are invited for a fully funded position as the research fellow (postdoctoral researcher) up to 31st March 2025 with annual renewals. The post is funded by the NEDO project P20010 on "Towards Ideal Aircraft-Structure Design with Carbon Fiber Reinforced Thermoplastics (CFRTPs)". The project aims to develop simulation tools for aeroelastic/structural design of CFRTP aircraft. The research involves structural mechanics, fluid dynamics, fluid-structure interaction, fracture mechanics of CFRP and CFRTP and optimization of aircraft design. The applicants are expected to have experiences on either of the research fields above.

Duties and responsibilities:

1. Research and development of aeroelastic/structural design tools of CFRP/CFRTP aircraft
2. Publish research articles and maintain the simulation tools
3. Assist and informally co-advise one or two graduate students in the same group

Required Qualifications and conditions:

Candidates must possess a doctoral degree in Engineering, Applied Mathematics, Computing, or a closely related discipline.

Salary and Benefits:

to be determined in accordance with Tohoku University's employment regulations. Approximately 5,200,000 JPY per annum. Allowances for transport may be provided depending on circumstances.

Hours:

The discretionary labor system for professional work shall apply. Flexible Work Hours: The standard working hours are 8:30 to 17:15, but the actual working hours are at the discretion of each employee.

Holidays:

Saturdays, Sundays, National Holidays, New Year's Holidays (Dec. 29 - Jan. 3)

Insurance:

Admission into the MEXT Mutual Aid Association; provision of unemployment insurance and worker's accident insurance

Application materials:

1. Curriculum Vitae including a list of research achievements (research papers, patents, books, reviews, awards)

Address to which applications should be sent:

Yoshiaki Abe, Institute of Fluid Science, Tohoku University
yoshiaki.abe_at_tohoku.ac.jp (replace '_at_' with '@')

Further information:

Further information on the research group can be found here:

<https://www.ifs.tohoku.ac.jp/mulphd/index.html>

<http://www.ifs.tohoku.ac.jp/edge/indexe.html>

<http://www.plum.mech.tohoku.ac.jp/toppage.html>

Project website (in Japanese)

https://www.nedo.go.jp/activities/ZZJP_100171.html



NEDO CAE Project Towards Ideal Aircraft-Structure Design
with Carbon Fiber Reinforced Thermoplastics

NEDO CAE Project TiAD-CF RTP CAE- II
