

Call for Applications: Postdoctoral Researcher, Center for Environmental Remote Sensing (CEReS), Chiba University

[Job Description]

Chiba University invites applications for a researcher to work on studies of climate tipping reconstruction.

1. Number of Positions:

One (1)

2. Research Fields:

- Natural Sciences in general / Atmospheric and Hydrospheric Sciences
- Infrastructure Development / Hydraulic Engineering

3. Duties:

Climate tipping points involve large uncertainties in their prediction. This project focuses on the weakening and collapse of the Atlantic Meridional Overturning Circulation (AMOC), aiming to identify key sources of uncertainty and underlying mechanisms by integrating paleoclimate proxies with climate models using data science approaches.

The successful candidate will be expected to:

- Develop model-data integration frameworks linking climate model outputs with paleoclimate proxies
- Perform uncertainty quantification and parameter estimation using methods such as Bayesian optimization
- Conduct paleoclimate reconstructions using data assimilation
- Investigate tipping mechanisms and early warning indicators through numerical experiments

The project ultimately aims to constrain the predictability of climate tipping points and provide guidance for improved modeling and observational strategies.

4. Qualifications:

- **Degree:** Applicants must hold (or be expected to obtain shortly) a Ph.D. in Atmospheric/Hydrospheric Sciences, Hydraulic Engineering, or a related field.
- **Experience:** Applicants should have research achievements in one of the following areas: paleoclimate, climate change projection, atmospheric/climate modeling, or data assimilation. However, candidates without prior experience in these areas will also be considered if they demonstrate strong interest and motivation.

5. Expected Start Date:

June 1, 2026 (negotiable; early start is welcome).

6. Employment Period:

The contract is annual (until March 31 of each fiscal year). Renewal may be possible depending on performance, research needs, and available funding.

7. Terms of Employment:

1. **Title:** Postdoctoral Researcher (full-time)
2. **Salary:** In accordance with Chiba University's regulations for fixed-term employees, determined based on years of experience.
3. **Working Hours:** 8:30–17:15, five days per week, 7 hours 45 minutes per day (discretionary work system for professional work applies).
4. **Holidays:** Saturdays, Sundays, national holidays, year-end/New Year holidays.
5. **Leave:** Annual leave in accordance with university regulations.
6. **Allowances:** Commuting allowance (if conditions are met, as per university rules).
7. **Insurance:** Membership in Mutual Aid Association, Employment Insurance, and Industrial Accident Compensation Insurance.

8. Selection Procedure:

Screening will be based on submitted documents and interviews. Applicants residing far from Chiba may be interviewed online.

9. Application Documents:

- (1) Curriculum Vitae (use the designated form available on the CEReS website).
- (2) List of research achievements (free format; separate peer-reviewed papers from others).
- (3) Copies of three major papers (photocopies accepted; preferably first-author or sole-author papers).
- (4) Statement of past research achievements and future plans (approx. one A4 page in total, free format).
- (5) Names, affiliations, and contact information of two references.

Notes:

- For (2), providing a URL (e.g., researchmap) with equivalent information is acceptable.
- Please use the subject line "Application for Postdoctoral Researcher Position."
- All submitted documents will be handled responsibly and disposed of after the selection process.

10. Application Deadline:

April 30, 2026 (applications must arrive by this date). However, the call may close earlier once a suitable candidate is found.

11. Submission Address:

Atsushi Okazaki

Center for Environmental Remote Sensing (CEReS), Chiba University

1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan

atsushi.okazaki[*]chiba-u.jp (replace [*] with @)

Please write “Application Documents for Specially Appointed Researcher” in red on the envelope or the email title.

12. Contact Information:

- **Research-related inquiries:**

Atsushi Okazaki, Center for Environmental Remote Sensing (CEReS), Chiba University

Tel: +81-43-290-3834

E-mail: atsushi.okazaki[*]chiba-u.jp (replace [*] with @)

- **Employment-related inquiries (salary, benefits, etc.):**

Yuji Wakatsuki, Center Affairs Section, Administrative Office for Science and Engineering, Nishi-Chiba Campus, Chiba University

Tel: +81-43-290-3832

E-mail: bee3832[*]office.chiba-u.jp (replace [*] with @)

13. Additional Information:

- Travel expenses for interviews may be reimbursed (depending on the condition)
- Salary will follow university regulations and depend on years of experience. For a researcher in the first year after obtaining a Ph.D., the annual salary is expected to be around 5.28 million JPY. Salary increases may be possible depending on achievements.