

**Project research associate (Post-doctoral researcher) for  
Center for Environmental Remote Sensing (CEReS), Chiba University**

**[Recruitment]**

Project research associate (Post-doctoral researcher)

**[Title of our research project]**

Estimation of Regional-Global Methane Emissions and Refinement of Its Estimate by GOSAT-2 and Surface Observations

**[Aim of our research]**

Our project estimates global methane emissions based on the “top-down” approach by atmospheric transport model using surface concentration, column amounts, vertical profile data of methane obtained with ground-based instruments (flask sampling and laser spectrometer) and satellite such as GOSAT and GOSAT-2. The scope of our project is to analyze global characteristics of atmospheric methane, but surface observations conducted in the framework of our project focus on South Asia (India and Bangladesh) where atmospheric transport via Asian monsoon is dominant.

Our project consists of the five subthemes:

1. High-accuracy retrieval of global methane concentrations from GOSAT/GOSAT-2 and their validation (Chiba University)
2. Study on regional characteristics of methane concentrations through combined analysis of satellite and surface observation data (Nara Women’s University)
3. Estimations of methane emissions using GOSAT/GOSAT-2 and surface observation data (JAMSTEC)
4. Continuous methane measurements for evaluating methane emissions in South Asia (Tokyo Gakugei University)
5. High-precision measurements of atmospheric methane and related species in South Asia (NIES)

**[Post-doc task]**

Analysis of methane data obtained with satellite-borne sensors (mainly GOSAT and GOSAT-2), simulated by a chemical transport model (MIROC4-ACTM), and observed by several aircraft to clarify the whole picture of the emission and transport process of atmospheric methane.

**[Position]**

Project research associate at Center for Environmental Remote Sensing (CEReS), Chiba University

**[Employment period]**

From 1 April, 2019 to 31 March, 2020, but can be extended until 31 March, 2021 depending on his/her performance and the status of our project.

**[Conditions for employment]**

Working hours:

about 7.5 hours per day, 5 days per week

One month's salary:

~370,000 JPY (including housing subsidies, commutation allowances, and labor insurances)

**[Application]**

Submit the following documents by 15 March, 2019 by e-mail (To: nsaitoh'at'faculty.chiba-u.jp):

1. Curriculum vitae / Resume
2. Publication and presentation lists
3. Reprints of the first/corresponding author papers
4. Summary for the past and on-going researches

**[Selection process]**

Applicant screening and interview

**[Contact]**

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