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**Job Vacancy Announcement**  
**Research Associate**

The Center for Climate Change Adaptation invites applications for the position of Research Associate as detailed below.

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**1. Position**

A Contract Research Employee (Research Associate), Center for Climate Change Adaptation

**2. Research Topic**

Crop modelling and simulation on the assessment of climate change and air pollution impacts on crops

**3. Description of Research**

The National Institute for Environmental Studies (hereinafter referred to as "NIES") conducts research on quantitative assessment of the impacts of climate change and air pollution on crops in the Strategic Research Project (S20) "Mitigation to Climate Change and Environment Impacts Caused by Short-Lived Climate Forcers" funded by the Environment Research and Technology Development Fund of the Ministry of the Environment, Japan. The successful candidate will work on the following topics.

- (1) Development and improvement of a crop growth simulation model "MATCRO" (Masutomi et al. 2016a,b)
- (2) Integration of MATCRO into the Integrated Land Simulator (ILS; Nitta et al., 2020)
- (3) Assessment of the combined impacts of climate change and air pollution under future mitigation scenarios

**4. Qualifications**

- (1) Hold a PhD in agronomy, biology, environmental studies, engineering, etc. at the time of hiring, or be recognized as equivalent or better.
- (2) Experienced in model development and simulation using programming languages such as C/C++, Fortran, Python, and R. The candidate should be able to learn

Fortran if not experienced.

(3) Ability to work using Linux system and to handle GIS data, or the candidate should be able to learn them.

## 5. Selection Process

The selection process will be by means of a screening of applications followed by individual interviews. We will inform those applicants whose applications have passed the initial screening process on details of the interview.

## 6. Application Process/Application Documents

Applicants are requested to submit the following documents by postal mail or e-mail;

- (1) CV (Prescribed format)
- (2) Outline of research experience (approximately 2 pages in A4 size; 1 copy)
- (3) List of scientific achievements (academic journal papers, books, and commentaries; 1 copy)
- (4) Reprint or copy of major publications (maximum of 3 items; 1 copy each)
- (5) Research proposal (approximately 1 page in A4 size)
- (6) Contact information (name and affiliation) for 2 referees

\* Please write "Application Documents for crop modeling and simulation" in red on the envelope for postal submission. Applicants wishing to submit electronically must email the contact person in advance for submission instructions.

(Submitted documents will not be returned. Application materials submitted by applicants other than the successful candidate will be properly discarded after selection is completed.)

Please list your past employments (names, addresses and periods) in the prescribed format CV. Indicate also if you had a contract with NIES other than an employment contract, such as collaborative researcher, visiting researcher, dispatch employee, contractor, etc.

## 7. Deadline

All application documents **MUST** arrive by February 4, 2022.

## **8. Work Conditions and Related Regulations**

Research Associates are treated as Contract Employees.

Rank (Working Hours): full-time (7 hours and 45 minutes per day)

The employee may be requested to work overtime and/or on holiday if necessary.

Compensation will be based on the Regulations Regarding Remuneration for Contract employees at NIES.

Basic remuneration for Research Associate: 15,120 ~ yen per day.

Probationary Period: 6 months

For other matters pertaining to this employment please ensure to refer to the Rules of Employment for Contract Employees at NIES and related regulations.

(Japanese only) <http://www.nies.go.jp/kihon/kitei/index.html>

## **9. Date of Commencement**

The position will start as soon as possible after April 1, 2022.

## **10. Term of Contract**

This is a contract position that, in principle, terminates at the end of the fiscal year (March 31, 2023). However, depending on the status of the research plan and performance evaluations, it may be possible for the Contract Employee to renew their yearly contract, although in principle, it cannot be extended past March 31, 2026.

## **11. Others**

This work falls under the subject matter of Article 15-2 of the Act on Activation of Science and Technology and Innovation Creation.

(Japanese only) [https://elaws.e-gov.go.jp/search/elawsSearch/elaws\\_search/lsg0500/detail?lawId=420AC1000000063#98](https://elaws.e-gov.go.jp/search/elawsSearch/elaws_search/lsg0500/detail?lawId=420AC1000000063#98)

## **12. Contact Information**

Applications should be directed to:

Dr. Yuji MASUTOMI

Center for Climate Change Adaptation

**National Institute for Environmental Studies**

**16-2 Onogawa, Tsukuba, Ibaraki 305-8506, Japan**

**Email: masutomi.yuji \*Please add “@nies.go.jp” at the bottom of the address.**

**Phone: +81-29-850-2438**

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**This is an English translation of a Japanese document. If there is a discrepancy between the two documents, the Japanese version takes precedence.**