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## **Job Vacancy Announcement**

### **Research Associate (a post-doctoral fellow)**

The Center for Health and Environmental Risk Research 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 Health and Environmental Risk Research**

#### **2. Research Topic**

**Research on statistical model development and data analysis for an epidemiological research such as the Japan Environment and Children's Study**

#### **3. Description of Research**

The National Institute for Environmental Studies hosts the Programme Office for the Japan Environment and Children's Study (JECS), which is a nationwide birth cohort study run by the Ministry of the Environment and involves 100,000 mother-child pairs. JECS collects the information about environmental exposures during pregnancy and early childhood as well as mothers' and children's health outcomes through questionnaire and biological samples. Exposure data also include air pollution data based on simulation models and GIS mapping. Health outcome data comprise of cross-sectional information as well as trajectory development measurements.

The research involves development of statistical models for mixture exposure data handling, non-detect data analysis, trajectory health data investigation, air pollution data analysis and exposure modelling. Research Associate will participate in one or combination of the following research:

- 1) Characterising the effect of chemical mixture exposures with potential inter-correlation;**
- 2) Handling and analysis of data containing missing data and data censored by multiple detection/quantitation/reporting limits;**
- 3) Analysis of trajectory data including child development;**
- 4) Air pollution modelling and analysis using GIS programming; and**
- 5) Pharmacodynamic modelling of chemical substances.**

#### 4. Qualifications

- 1) Applicants must obtain a doctor's degree or equivalent within the past 10 years (Conscription/draft period may be excluded).
- 2) Applicants must have expertise in epidemiology, applied mathematics/statistics or related discipline.
- 3) Applicants must have experience in using statistical programs (e.g. R, Python), and be familiar with GIS software (e.g. ArcGIS and QGIS).
- 4) Applicants must have research experience and skills in this field such as working with large datasets, statistical analysis, mathematic modeling, machine learning and deep learning.
- 5) Applicants must have the ability to communicate with their colleagues in Japanese or English and to publish their works in English.

#### 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 mail;

- 1) CV (Prescribed format)
- 2) Publication list
- 3) Summary of research experience (1–3 pages)
- 4) Research plan, which should meet the job description (1–2 pages)
- 5) Two reference letters

\*Please write "Application for JECS Research Associate Position" in red on the envelope.

(Application materials will not be returned.)

Please list your past employments (names, addresses, 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

At any time. Applications will be closed when the position is filled.

## **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 or greater.

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.

See: <http://www.nies.go.jp/kihon/kitei/index.html>

## **9. Date of Commencement**

The position will start as soon as possible after 1 February 2021.

## **10. Term of Contract**

This is a contract position that, in principle, terminates at the end of the fiscal year (31 March 2021). 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 31 March 2025.

## **11. Others**

This vacancy announcement 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 Shoji F. NAKAYAMA

Center for Health and Environmental Risk Research

National Institute for Environmental Studies

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

Email: fabre \*Please add "@nies.go.jp" at the bottom of the address.

Phone: +81-29-850-2786

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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.**