

Tenure Track Positions
Nanoscience and Nanotechnology Research Center
Research Institutes for the Twenty-First Century
Osaka Prefecture University, Osaka, Japan

July 2008
Osaka Prefecture University
Personnel Committee

Osaka Prefecture University is seeking to appoint suitable candidates for tenure track positions as special lecturers at the Nanoscience and Nanotechnology Research Center, starting from fiscal 2008. If you are interested in applying for a tenure track position, please read the following information.

Osaka Prefecture University is holding open recruitment for four first-term special lecturers in tenure track positions at the “Leading University as a Base for Human Resource Development in Nanoscience and Nanotechnology” program of the university’s Research Institutes for the Twenty-First Century. This recruitment is held under the “Improvement of Research Environment for Young Researchers” (FY 2008-2012) program supported by the Special Coordination Funds for Promoting Science and Technology, the Ministry of Education, Culture, Sports, Science and Technology.

The aim of the program is to create a global research base related to nanosciences and nanotechnologies in our university by establishing the “Nanoscience and Nanotechnology Research Center” within our Research Institutes for the Twenty-First Century to nurture excellent human resources in these fields under the tenure track system. In addition, the many incumbent faculty members at our university who have outstanding accomplishments in these areas will contribute to establishing this global research base. Workshops and lectures will be held on a regular basis, and in the final fiscal year of the program when the base is fully established, a major international conference will be sponsored by the base at which the results of our research will be presented to the world.

The tenure track system offers a career path by which young researchers can accumulate experience as researchers and educators in an independent research environment through fixed-term employment, under which they will eventually be acknowledged as a tenured associate or full professors after a final evaluation. Osaka Prefecture University is looking to hire tenure track special lecturers through an international open recruitment program from fiscal 2008. Four special lecturers

will be appointed in fiscal 2008. This will be followed by three appointments in the fiscal 2009, two for fiscal 2010, two for fiscal 2011 and two for fiscal 2012. The recruitment will be conducted as per the following percentage guideline throughout the duration of the program: female researchers 20%; those from other institutions 50%; and those who have been involved with our university 30%. In order to actively promote the recruitment of female researchers, we are preparing a support system. Tenure track lecturers who have been acknowledged as qualified by an interim evaluation and a stringent final examination at the end of the fifth year will be hired as tenured associate professors (or accelerated promotion to tenured professor if they have shown an excellent record of achievements) at Osaka Prefecture University from January 2014. In such a case, they will be able to carry out their education and research activities after being positioned in their preferred department and faculty.

During the first fiscal year, 10,000,000 yen will be provided unconditionally to each tenure track lecturer as a start-up fund, and from the second year onward, 5,000,000 yen per annum will be ensured. A personal research space of approximately 100 m² will be secured for each researcher in the Nanoscience and Nanotechnology Research Center. Also, we will strongly support research activities by tenure track lecturers by installing a class 10 clean room, cryogenic research facility, and state-of-the-art research equipment as a shared infrastructure in the Nanoscience and Nanotechnology Research Center. Please visit the center's Web site (to be launched in August) for details of this research equipment, and make use of the information on the Web site to develop research plans for the base and plans for obtaining external funds after gaining a position at our university. The Nanoscience and Nanotechnology Research Center's full-time support staff, which includes a project professor (nanofabrication and cryogenics), two technical staffers (clean room equipment and cryogenic equipment), and two administrative staffers (center administrative work and international event support), will support tenure track lecturers. In addition, a mentor system will be established to provide support according to each tenure track lecturer's needs.

The recruitment of three second-term special lecturers will start about three months after this first-term recruitment, with their employment scheduled for April 1, 2009. Our university will not prohibit reapplications, so we welcome applications for the second term from those who also applied for the first term.

1. Number of tenure track positions available

Four special lecturers (as tenure track lecturers will be referred to at our university)

2. Institution

Nanoscience and Nanotechnology Research Center of the Research Institutes for the Twenty-First Century

3. Assigned Classes

Graduate school classes related to your research area

4. Qualification requirements

Applicants should hold a PhD degree acquired within the past 10 years; a track record of three or more years as an assistant professor (formerly called "research associate" at our university), postdoctoral fellow or an equivalent title as of January 1, 2009; and excellent research achievements in the fields of nanoscience or nanotechnology.

Those whose mother tongue is not Japanese may carry out education and research activities at the center using English as their primary language. However, in order to gain qualification as a tenured associate or full professor, a working knowledge of Japanese is required.

5. Appointment duration

From January 1, 2009 to December 31, 2013.

Lecturers who are acknowledged to have shown exceptional research achievements by an interim evaluation to be held in 2011 may be promoted to special associate professor (tenure track position).

6. Research areas

Applications with prior background in experimental and/or theoretical approaches in a wide range of research areas including physics, applied physics, chemistry, applied chemistry, chemical engineering, electronics, physics engineering, material engineering, mechanical engineering, mathematical science, material science and molecular science related to nanoscience and nanotechnology are welcome. The potential of the applicant's research themes and qualifications as a researcher will be considered during the selection process. The Center's state-of-the-art research equipment and the existing infrastructures of the university will be made available for the successful candidates' research activities.

7. Work Description

- (1) Carrying out research activities based on the research plan submitted during recruitment.
- (2) Teaching graduate school classes related to your research area.
- (3) Conducting classes in English at the graduate school.
- (4) Providing guidance for graduate school students, including students from outside Japan, on research activities and writing their theses.
- (5) Writing and publication of research papers.

- (6) Participating in presentations at academic meetings, including international conferences.
- (7) Participating in voluntary activities as a member of various academic societies in order to gain experience in leadership.
- (8) Working actively to obtain external research funds. Tenure track lecturers of our university will be allowed to apply for competitive research funds without any change in their employment conditions.
- (9) Contributing to the activities of the Nanoscience and Nanotechnology Research Center.
- (10) Presenting research results at symposiums sponsored or co-hosted by the Nanoscience and Nanotechnology Research Center.
- (11) Other duties as considered necessary by the Director of the Research Center.

8. Work conditions

- (1) The Research Center is located on the Nakamozu campus of Osaka Prefecture University.
- (2) For applicants living outside of Japan, we will provide support in securing accommodation according to the applicants' needs.
- (3) The employment conditions and regulations of Osaka Prefecture University shall be applied as deemed appropriate. A discretionary work scheme shall be applied to tenure track lecturers.
- (4) Intellectual property rights for inventions made during the period of employment shall be held by Osaka Prefecture University in accordance with the university's regulations on the handling of intellectual property rights.

9. Annual salary

Approximately 8,000,000 yen. If a promotion to special associate professor is granted during the interim evaluation, the annual salary shall be raised to approximately 8,500,000 yen.

10. Research support

- (1) During the first fiscal year, 10,000,000 yen will be provided as a start-up fund, and from the second year onward, 5,000,000 yen per annum will be ensured.
- (2) A personal research space of approximately 100 m² will be secured for each researcher
- (3) Research equipment will be made available at the Nanoscience and Nanotechnology Research Center (details to be announced on our Web site).
- (4) Support through mentors such as a full-time project professor and incumbent professors in the university will be provided.
- (5) Advice on research activities and performance will be provided by external advisory members.

- (6) Support for female researchers will be provided.
- (7) Extension of the appointment duration for reasons such as childbearing by female researchers will be considered. The normal duration is five years, however, this can be extended to a maximum of six years.
- (8) Full-time research support staff, i.e., one project professor, two technical staffers and two administrative staffers, will be allocated.

11. Promotion to tenured associate professors

Tenure track lecturers hired through this recruitment program will be promoted to tenured associate professors of Osaka Prefecture University—or tenured full professors if they have shown an excellent record of accomplishment—starting from January 2014, after successfully passing the final evaluation. In such cases, those who have been promoted may be positioned to their preferred department and faculty at the university.

12. Application Materials

- (1) Résumé
- (2) List of research achievements (books, papers, articles presented at international conferences, commentaries, review papers)
- (3) List of activities in academic and general societies, contributions to education, acquired patents
- (4) Five major papers (copies are acceptable)
- (5) Abstracts of five submitted papers: an abstract of approximately 100 words for each paper
- (6) Summary of past research activities: about two pages in A4 or Letter size (figures may be included)
- (7) Research plan: about five pages in A4 or Letter size (figures may be included)
- (8) Comments regarding the potential of your research plan: one page in A4 or Letter size (figures may be included)
- (9) Policies regarding education: one or so page in A4 or Letter size (figures may be included)
- (10) List of external research funds obtained to date
- (11) Plan for obtaining competitive research funds in the future
- (12) Five letters of recommendation or reference in sealed envelopes
- (13) Submission of additional documents may be required during the selection process

Any format can be used for the above documents (1) to (13), but they must all be written in English. If the presentation or publication contents are in Japanese, they can be submitted in

Japanese, e.g. for presentations made to a Japanese academic society or patents acquired in Japan. Documents shall be submitted in A4 or Letter size. Your name must be written on all documents. In principle, documents submitted will not be returned.

13. Submission deadline

October 1, 2008, 5 p.m. Japan Standard Time. All documents must be received via e-mail by the deadline, with hard-copy documents to follow.

14. Selection process

- (1) The submitted documents will first be examined.
- (2) Interviews and presentations in English will be conducted as necessary.
 - a. Applicants who have obtained a large research fund for their research activities or who are currently applying for or are planning to apply for a large research fund should make reference to these research plans during their presentation.
 - b. Applicants will be asked to give a lecture in English using a chalkboard on a theme given in advance.
 - c. Further details of interviews and presentations will be sent to candidates at a later date.
- (3) Selection results will be mailed to applicants by the end of December 2008.

15. Submission of application documents

All application materials except the letters of recommendation or reference should be prepared in MS Word or PDF format and be submitted by the deadline to: nano2008@21c.osakafu-u.ac.jp

The subject line of the e-mail should be as follows:

“Einstein-2008-mm-dd-application materials”

- a. “Einstein” is the family name of the applicant.
- b. “2008” is the year of application.
- c. “mm” is the submission month, e.g., 09 for September.
- d. “dd” is the submission day, e.g., 23 for September 23.

Any resolution can be used for scanned papers to be submitted via e-mail, but the total size of the e-mail attachments must be 3 MB or less. Copies of the five letters of recommendation or reference do not have to be sent by e-mail attachment.

Hard-copy documents (paper materials with identical contents as the e-mail application) and the sealed letters of recommendation or reference are to be sent by registered mail to:

Personnel Section, General Affairs Division, Osaka Prefecture University
1-1 Gakuen-cho, Naka-ku, Sakai, Osaka 599-8531, Japan

On the front of the envelope, write “Tenure track lecturer application” in red ink.

The hard-copy documents should reach the university within a week after submission by e-mail.

16. Contact Information

If you have any questions, please contact the person named below, using the same procedure for the subject line as outlined in Item 15.

For matters relating to areas of specialization:

Prof. Takekazu Ishida (Base Program Officer),

Graduate School of Engineering,

Osaka Prefecture University

E-mail: fudai2008@21c.osakafu-u.ac.jp

The subject should be: Einstein-2008-mm-dd-question related to areas of specialization

For questions relating to applications:

Personnel Section, General Affairs Division,

Osaka Prefecture University

E-mail: jniji2008@21c.osakafu-u.ac.jp

The subject should be: Einstein-2008-mm-dd-question related to applications in general