Seventh-Term Tenure-Track Position
NanoSquare Research Center, Research Organization for the 21st Century
Osaka Prefecture University, Osaka, Japan

May 2013
Osaka Prefecture University
Personnel Committee

Osaka Prefecture University is seeking applications for two tenure-track special lecturers at the Nanoscience and Nanotechnology Research Center. Those interested in applying for a tenure-track position should read the following information.

Osaka Prefecture University is conducting open recruitment for two seventh-term special lecturers in tenure-track positions in the “Leading University as a Base for Human Resource Development in Nanoscience and Nanotechnology” program of the university’s Research Organization for the 21st Century (http://www.nanosq.21c.osakafu-u.ac.jp/).

This program commenced in 2008 aims to create a global research base related to nanosciences and nanotechnologies in our university by establishing a “Nanoscience and Nanotechnology Research Center” (known by the name “NanoSquare Research Center”) within our Research Organization for the 21st Century in order to nurture excellent human resources in these fields under our tenure-track system. Many incumbent faculty members at our university who have outstanding accomplishments in these areas will contribute to establishing this global research base. The tenure-track system offers a career path by which young researchers can accumulate experience as researchers and educators through fixed-term employment in a research environment. There they are free to pursue their own research projects without being directed or constrained. Within this system, they may eventually be acknowledged as 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, under which fourteen faculty members have already been hired for the last 5 years as the first phase. In this phase, the program subsidized by the government was evaluated as the highest “rank S” not only in overall judgment but also in all five
individual items in the assessment conducted by the government in FY 2010. The “High
Incentive Type Tenure-Track System” will be continued under the second phase of the
NanoSquare program. An attempt will be made to conduct our recruitment according to the
following percentage guidelines throughout the duration of the program: female researchers –
20%; those from other institutions – 50%; and those who have experience at our university –
30%. The university has set a special quota to encourage female researchers to apply, but this is
not intended to limit the number of female researchers. Tenure-track special lecturers who have
been acknowledged as qualified by an interim evaluation in the third year and a stringent final
examination at the end of the fifth year will be hired as tenured associate professors (or if they
have demonstrated an excellent record of achievement, as tenured full professors) at Osaka
Prefecture University. In such cases, they will be able to carry out their education and research
activities after being placed in a department and faculty appropriate to their fields of study.

During the first fiscal year of employment, 10,000,000 yen will be provided to each tenure-track
special lecturer as a start-up fund for use in establishing a laboratory and initiating research, and
from the second year onward, 5,000,000 yen per annum will be assured. 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 the research activities of
tenure-track faculty members by installing state-of-the-art research equipment systematically
such as high accuracy electron beam lithography system, manual photomask aligner, three-target
sputtering apparatus, pulsed laser deposition system, multi-purpose horizontal X-ray diffraction
system, measurement system for physical properties, zeta-potential & particle-size analyzer,
stylus surface profiler, dicing saw, high sensitivity differential scanning calorimeter,
high-precision microbalance, fluorescence microscope, metallograph, digital microscope, atomic
force microscope, laser Raman microscope, compact size ECR ion shower, wire bonder, cluster
computer as shared infrastructures in the Nanoscience and Nanotechnology Research Center.
Please visit the Center’s website for details concerning this research equipment. Also posted on
the website is information which may be useful in developing research plans at the Center as well
as plans for obtaining external funding after obtaining a position at our university. In the
Nanoscience and Nanotechnology Research Center, faculty member, technical support staffer,
and administrative staffer will support tenure-track faculty members. In addition, a mentor system
has been established to provide support according to each tenure-track faculty member’s needs.
1. Number of Tenure-Track Positions Available
Two tenure-track special lecturers

2. Main Academic Disciplines Assigned
Nanoscience and Nanotechnology Research Center of the Research Organization for the 21st Century

3. Assigned Classes
Graduate school classes related to the applicant's research area(s)
Omnibus lecture “Introduction to Nanoscience and Nanotechnology” for undergraduate

4. Institution
Research Organization for Strategic Research (4th College Cluster, Institute of Science Research)

5. Qualifications
(1) Applicants should hold a PhD degree acquired within the past 10 years; have three or more years' experience as an assistant professor (formerly called "research associate" at our university), postdoctoral fellow or equivalent as of April 1, 2014 and have demonstrated excellent research achievements in the fields of nanoscience or nanotechnology.
(2) Applicants should be under forty (40) years old of age as of August 13, 2013 (Age limit of the applicants is a requirement to apply for MEXT for “Program to Disseminate Tenure Tracking System” implemented by Ministry of Education, Culture, Sports, Science and Technology in FY2013.).
(3) Those who do not have strong Japanese skills 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 academic Japanese is required.
(4) Applicants should not fall within any of the categories of ineligibility set out in Article 9 of the School Education Law.

6. Term of Appointment
From April 1, 2014 to March 31, 2019.
Tenure-track special lecturers who are acknowledged to have shown exceptional research achievements by an interim evaluation to be held in FY2016 may be promoted to special associate professor (tenure-track position) from April 2017.

7. Areas of Research

Applicants in a wide range of research areas related to nanoscience and nanotechnology including (1) physics, (2) applied physics, (3) chemistry, (4) applied chemistry, (5) chemical engineering, (6) electronics, (7) physics engineering, (8) material engineering, (9) mechanical engineering, (10) mathematical science, (11) material science, (12) molecular science, (13) biological science, (14) energy science, and (15) environmental science are welcome. Any research method, whether experimental or theoretical, is acceptable. The potential of the applicant’s research topics and well-planned research proposals, and qualifications as a researcher will be considered during the selection process.

8. Work Description

(1) Carrying out research activities based on the research plan submitted at the time of appointment.
(2) Teaching graduate school classes related to applicant’s research area(s).
(3) Conducting classes in English in 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 funding. (Tenure-track faculty members at our university are able to apply for competitive research funding without any change to the conditions of their employment.)
(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.
9. Working 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 apply as deemed appropriate. A discretionary work scheme shall apply to tenure-track faculty members.
(4) Intellectual property rights for inventions made during the period of employment shall vest in Osaka Prefecture University in accordance with the University’s regulations on the handling of intellectual property rights.

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

11. 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 assured.
(2) A personal research space of approximately 100 m$^2$ will be secured for each researcher.
(3) Research equipment will be made available at the Nanoscience and Nanotechnology Research Center (details available on our website).
(4) Support through mentors such as incumbent professors in the university will be provided.
(5) Advice on research activities and performance will be provided by external advisors.
(6) Support for female researchers will be provided. Applicants are welcome to contact us for details of the support we offer for female researchers.
(7) Faculty member, technical staffer, and administrative staffer (who are responsible for educational affairs, administrative work, accounting work, public relations, international event support, etc.), will be allocated to support the tenure-track faculty members.

12. Promotion to Tenured Associate Professor
For tenure-track special lecturers hired in this 7th term, there is a good possibility of promotion to tenured associate professor at Osaka Prefecture University—or tenured full professor from April
2019 if they have shown an excellent record of achievement—after successfully passing the final evaluation. In such cases, those who have been promoted may be placed in a department and faculty appropriate to conducting teaching and research in their field of study.

13. Application Materials

(1) Résumé. Please specify the date of birth, PhD receipt date, and fields of specialization.

(2) List of research achievements (e.g. books, peer-reviewed papers, articles presented at international conferences, commentaries, review papers, and h-index). For each paper, please state the number of citations and impact factor. Please specify keynote speeches and invited guest lectures in the list, if any.

(3) List of activities in academic societies and general society, contributions to education, acquired patents.

(4) Copies of five major papers.

(5) Abstracts (about 100 words) of each of the five major papers.

(6) Summary of past research activities. About two pages on A4 size paper (diagrams may be included).

(7) Research plan. About five pages on A4 size paper (diagrams may be included).

(8) Comments regarding the potential of your research plan. One page on A4 size paper (diagrams may be included).

(9) Policies regarding education. One page or so on A4 size paper (diagrams may be included).

(10) List of external research funding obtained to date. Please specify any delegate for or partakers in the external funding, and the funding allocated to the applicant.

(11) Plan for obtaining competitive research funding in the future.

(12) Five letters of recommendation or reference (which must be sent to Osaka Prefecture University directly by the five referees). Applicant should submit a list of the five referees with addresses and contact details.

(13) Additional documents may be requested during the selection process if necessary.

The above documents (1) to (13) may be presented in any format, 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 on A4 or letter size paper. The applicant’s name must be written on all documents.
Please request referees to post letters of recommendation or reference directly to the address set out in 16(2) below.
In principle, documents submitted will not be returned.

14. Deadline for Submission
The deadline for submission of applications is 5 p.m. Japan Standard Time on August 13, 2013.
All documents must be submitted online by the deadline, with hard-copy documents to follow.

15. Selection Process
(1) The submitted documents will first be reviewed.
(2) Interviews and presentations in English will be conducted as necessary.
   a. Applicants who have obtained significant research funding for their research activities or
      who are currently applying for or are planning to apply for significant research funding
      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 topic 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 2013.

16. Submission of Application Documents
(1) All application materials should be prepared in MS Word or PDF format and be submitted
    through our website (http://www.nanosq.21c.osakafu-u.ac.jp/) by the deadline. The total
    size of the files must not exceed 12MB.
(2) Original documents of the online application materials should be sent by registered mail to:
    General Affairs and Personnel Division, Osaka Prefecture University
    1-1 Gakuen-cho, Naka-ku, Sakai, Osaka 599-8531, Japan
    On the front of the envelope, write “Tenure-track special lecturer application, NanoSquare
    Research Center, Research Organization for the 21st Century” in red ink. The
    envelope must be postmarked not later than August 16, 2013.
(3) Five letters of recommendation or reference must be sent to the postal address above
    directly from the respective five referees and arrived by the end of August 2013.

17. Questions Relating to Applications
Applicants are welcome to contact us with any questions they may have. Please visit our inquiry page on our website, and submit your question using the inquiry form A. Q&A page is also provided.

**18. Contact Details**

General Affairs and Personnel Division, Osaka Prefecture University

E-mail: jinji2014<at>21c.osakafu-u.ac.jp