

Frontier Institute for Biomolecular Engineering Research (FIBER)  
Konan University

Application Guidelines for  
Specially Appointed Research Assistant Professor

[Duties and Responsibility]

In order to promote Konan New Century Strategic Research Project “Establishment of non-Watson-Crick world nucleic acid chemistry and formation of an international nucleic acid chemistry research center”, we are calling for researchers to perform the following duties in FIBER;

- a. Understand the purpose of the research project and take the initiative in the research.
- b. Publish the results (papers, conference presentations, etc.).
- c. Conduct seminars and other events related to the research project.

[Affiliation]

Frontier Institute for Biomolecular Engineering Research (FIBER), Konan University

[Work Location]

Name: Konan University Port Island Campus

Location: 7-1-20, Minatojima-minamimachi, Chuo-ku, Kobe, 650-0047, Japan

Tel: 81-78-303-1147

[Number of Positions]

One Specially Appointed Research Assistant Professor

[Scheduled date of arrival (hire date, start date, etc.)]

As soon as possible, after the selection and recruitment process is completed.

[Employment Period]

Start date to March 31, 2025

Note: After the expiration of the employment period, there is a possibility of annual renewal until March 31, 2028 at the maximum upon review (not exceeding a total of three years from the date of employment). The applicant will be notified at least 30 days prior to the end of the employment period as to whether or not

the contract will be renewed.

Example: If the date of employment is July 1, 2024

First year: July 1, 2024 - March 31, 2025 (9 months)

If renewed: April 1, 2025 - March 31, 2026 (1 year)

Second year (if renewed): April 1, 2026 - March 31, 2027 (1 year)

Renewed: April 1, 2027 - June 30, 2027 (3 months) Total of 3 years

#### [Field of research]

Biological Chemistry, Nucleic acid chemistry, Physics Chemistry, Information and Life Sciences

#### [Working Hours]

At least 4 days per week, 40 hours (work hours negotiable)

Holidays: Sundays stipulated in the University's employment regulations, holidays stipulated in the "Law Concerning National Holidays," the anniversary of the founding of the University (April 21), winter holidays, and summer holidays.

However, it may be changed according to the progress of research.

#### [Salaries, etc.]

Monthly salary will be determined on a case-by-case basis, taking into consideration the researcher's ability, experience, and career. As a principle, the monthly salary shall be within the range of 300,000 yen to 410,000 yen.

Transportation: Separately, commuting transportation expenses are paid in accordance with Konan Gakuen's commuting allowance payment detailed regulations.

Insurance: Japan Private Schools Promotion and Mutual Aid Corporation, employment insurance, worker's accident compensation insurance.

#### [Others]

Researchers are allowed to apply for competitive research funds such as Grant-in-Aid for Scientific Research to the extent that it does not interfere with the execution of the project in question.

#### [Selection process]

Application screening and Interview

Interviews will be held for those who pass the application screening, and will be scheduled by the middle to end of March. (and are scheduled for mid-late March or later.) The date and time will be notified as soon as possible.

Interviews will be held at Konan University Port Island campus (address: see "3.

Work Location" section above), and applicants are responsible for transportation and hotel expenses related to the interview.

Applicants from distant locations may choose to be interviewed online instead of in face-to-face.

Notification of acceptance or rejection will be sent to the applicant by mail.

## [Qualifications and Requirements]

### < Prerequisite Condition >

- a. Completion of a doctoral degree in a science-related graduate program.
- b. Having cooperative and proactive attitude to conduct research in cooperation with related organizations and research teams based on the vision of the University and the Institute (KONAN U.VISION 2025).

Please refer to the following website for information on Konan University's KONAN U.VISION 2025

URL: <https://www.konan-u.ac.jp/pdf/info/vision/vision2025-07.pdf>

- c. Understanding of the University's founding spirit and being able to conduct research and education based on the philosophy of "Personality Education Initiative".

Please refer to the following URL for Konan University's Founding Spirit.

<https://www.konan-u.ac.jp/gakuen/hirao/>

- d. Having a high awareness of compliance and being able to observe the University's employment regulations and rules, as well as the School Education Law and the Private School Law and its enforcement regulations.

- f. To be able to actively promote the project in cooperation with FIBER faculty members. (Outline of the project research)

Nucleic acids form a duplex by Watson-Crick base pairs and store genetic information. On the other hand, nucleic acids can also form non-canonical structures such as a triplex and quadruplex. It has become clear in recent years that the formation of non-canonical structures alters the gene expression. It has also been shown that non-canonical structures are often formed on genes associated with disease. Therefore, it is important to elucidate the correlation between the formation of non-normal structures and disease progression.

This project will construct an energy database that can predict the canonical duplex and non-canonical structures of nucleic acids in response to environment change in cells. Furthermore, based on this database, we will collaborate with research groups around the world to elucidate the regulation mechanism of genes expressions by nucleic acid structures, and attempt to develop technologies to control them.

### < Preferable Condition >

- a. Experience in physicochemical and biochemical analysis of biomolecules (nucleic acids, proteins, etc.) is preferable.

[Documents for submission]

- a. Curriculum vitae (using the prescribed form, with a photo attached and contact information including e-mail address)
- b. List of research achievements (categorize as appropriate: refereed papers, other papers, commentaries/reviews, books, awards, patents, presentations at domestic and international conferences, etc.)
- c. Reprints or copies of major academic papers (maximum of 3)
- d. Degree certificate
- e. Status of obtaining external research funding (distinguish between representative and shared responsibility)
- f. Summary of previous research and work carried out (about 1~2 pages of A4 paper)
- g. Other items of special mention (educational achievements, academic conference activities, etc.)
- h. Name, affiliation, contact information (telephone number and e-mail address), and relationship to the applicant of at least one person who is able to inquire about the applicant.

Document submission will not be returned. The documents of unsuccessful applicants will be disposed of responsibly. (However, it will be returned if it is accompanied by a self-addressed, postage-paid envelope.)

Personal information provided in the application documents will be used within the scope of recruitment activities and post-employment personnel management purposes.

Note: A health certificate will be required after the interview screening. Other documents may be requested as needed.

[Application Deadline]

Must arrive no later than July 31, 2024

However, if a suitable candidate is selected before the deadline, the application may be closed before the deadline.

[Application Process]

■ In case of submitting by mail

Please write "Application for Specially Appointed Research Assistant Professor for the New Century Strategy Research" in red on the envelope of the application documents and send it by registered mail, simplified registered mail, or Letter-Pack to the following address.

Mailing address: 7-1-20 Minatojima-Minami-cho, Chuo-ku, Kobe 650-0047

To: New Century Strategy Research Project, Project Assistant Professor  
Recruitment Section

[Efforts to Prevent Passive Smoking]

Smoking is prohibited on the premises of the Port Island Campus (with specified outdoor smoking areas).

[Other]

Applications will be kept strictly confidential.

[Contact]

Frontier Institute for Biomolecular Engineering Research (FIBER), Konan University  
Konan University Port Island Campus 7-1-20, Minatojima-minamimachi, Chuo-ku,  
Kobe, 650-0047, Japan

Tel: 81-78-303-1457

E-mail: fiber[at]adm.konan-u.ac.jp

Please replace [at] with @.