Position filled

Call for applications (Job Information)

Graduate School of Biostudies, Kyoto University (Faculty Consort of Biostudies)

http://www.lif.kyoto-u.ac.jp/e/?page_id=8456

1. **Job type:**
   Assistant Professor in "Advanced Life Science Promotion Project" or Associate Professor

2. **Number of positions:**
   One

3. **Primary Affiliation:**
   Laboratory of English Education

4. **Qualifications**
   ① Ph.D. or equivalent in a Life Science field
   ② Native speaker of English, or equivalent (all nationalities considered)
   ③ Must teach four undergraduate courses in English in common subjects in Biology for the whole university.
   (Two 16-week courses per semester; four courses per year. Each course consists of one 90-minute class per week, with up to 60 students per course, although some courses may be small seminar courses with as few as 6 students; see the attached file 1 (a URL is provided below) for an example of the course syllabus)
   ④ Be able to contribute to English education in this Graduate School.
   ⑤ If the applicant would like to continue his/her research, the applicant is asked to find and negotiate with a “host” (a professor of the core laboratories of the Graduate School, see the attached file 2 (a URL is provided below) for the core laboratories) who is willing to provide suitable research facilities.

5. **Starting date:**
   February 1, 2021, March 1, 2021, or April 1, 2021 at the latest

6. **Job term:**
   ● Associate Professor: 5 years (5 years re-appointment will be possible)

● Assistant Professor: 4 years (3 years re-appointment will be possible)

7. Probation period:

6 months

8. Working hours:

Five working days per week, 38 hours 45 minutes per week, 7 hours 45 minutes per day, under a discretionary labor system.

9. Holidays:

① Saturdays and Sundays
② Statutory public holidays of Japan
③ Year-end and New Year holidays (December 29 through January 3)
④ Kyoto University's Foundation Day
⑤ Summer holidays as per University guidelines

10. Salary:

Determined in accordance with the rules of Kyoto University.

11. Social insurance:

Eligible for MEXT* mutual aid association membership, employees' pension, employment insurance, and workers' accident compensation insurance.

*MEXT: Japan's Ministry of Education, Culture, Sports, Science and Technology.

12. Required documents:

Application documents must be written in English

① Curriculum Vitae (photo attached)
② Performance lists including publications (attach up to 3 PDFs of first- or corresponding-authored research papers), meeting presentations, grants received, awards, etc.
③ Intention survey (attached file 3, a URL is provided below)
④ Summary of teaching experience, past and present (include brief descriptions of your role in teaching lecture courses as well as laboratory courses; also include mentoring, if applicable)

⑤ Summary of previous research (approximately one A4-size page, including figure(s))
⑥ Research plan (approximately two A4-size pages, including figure(s))
⑦ Aspiration for research (within one A4-size page)
⑧ Aspiration for education (within one A4-size page)

13. Internet interview:

We will require finalist applicants, who have passed a preliminary document screening, to present their research and a “simulated class” via the internet.

14. Submission deadline:

5　p.m. on January 31, 2020

15. How to Submit an Application:

via e-mail to <150soumu at mail2.adm.kyoto-u.ac.jp>
（Replace “[at]” with “@”.）
Please type “Job application” in the subject space.
We will acknowledge the receipt within three business days. If you do not receive the notice, please contact us at the address above.

16. Attached files:

・URL1 (attached file 1) : https://u.kyoto-u.jp/r-o47
・URL2 (attached file 2) : https://u.kyoto-u.jp/wo23v
・URL3 (attached file 2) : https://u.kyoto-u.jp/afj5g

Notes:

The materials will not be used for purposes other than selection.
Kyoto University is creating a culturally diverse environment. An equal opportunity is offered to this open position regardless of disability. We give priority to women if they have equal competence based on fair examination.

Numbering code	U-LAS14 20035 LE68		
Course title <English>	Basic Biology-E2 Basic Biology-E2	**Affiliated department, Job title,Name**	Graduate School of Biostudies Professor,HEJNA, James
Group	Natural Sciences	**Field(Classification)**	Biology(Issues)
Language	English	**Old group**	Group B
Number of credits	2		
Number of weekly time blocks	1	**Class style**	Lecture
Course offered year/period	2019 • First semester		
Day/period	Mon.3	**Target year**	Mainly 1st & 2nd year students
Eligible students	For science students		

[Outline and Purpose of the Course]

This class will provide a basic introduction to molecular and cell biology, in English. The class is open to 1st and 2nd year students, and will assume some prior familiarity with elementary chemistry and biology, although students from other majors are welcome to attend. The objective for the class is to nurture an intellectual curiosity about molecular and cell biology, which will lead to more in-depth study later on. We will pay attention to some of the similarities in different organisms, as well as some of the obvious differences, not only between organisms but between cell types, and at the molecular level of protein functions.

[Course Goals]

Students will gain familiarity with the fundamental components of cells, and begin to learn how cellular function depends on complex interactions between proteins, nucleic acids, lipids, and carbohydrates, acting alone, in complexes, or in larger structures, such as organelles. Students should begin to appreciate how fundamental processes are conserved over evolutionary time, and also how they vary in different species.

[Course Schedule and Contents)]

First Semester, Mondays, 13:00-14:30

1. Big and Small: organisms and molecules
   Weeks 2-9 will introduce the basic parts that build living cells.
2. Carbohydrates
3. Nucleic Acids-DNA, nucleotides, genes, etc.
4. Nucleic Acids-RNA, ribonucleotides, coding RNAs, non-coding RNAs, etc.
5. Proteins: structural proteins, enzymes, machines
6. Information Flow, the central dogma and beyond.
7. Ribonucleoproteins, including ribosomes and protein translation
8. Lipids and membranes: what makes a cell a cell?
9. Membranes: inside, outside, and channels
10. Energy and Metabolism: what is the power source of the cell?
11. Gene Regulation: how are genes turned on and off?
12. Prokaryotic Cells: basic biology and social interactions
13. Eukaryotic Cells: types of cells; cell differentiation; and more
14. Regulation-homeostasis, communication, and signaling
15. Final Exam
16. Feedback class

Continue to Basic Biology-E2(2)↓ ↓ ↓

Basic Biology-E2(2)

[Class requirement]

The class is open to all 1st and 2nd year students, but it assumes some basic (high school) knowledge of chemistry and biology.

[Method, Point of view, and Attainment levels of Evaluation]

Lectures will encourage student participation. There will be a final exam and some mini-quizzes to assess comprehension. Attendance will also factor into the final grade. Attendance and participation, 50 points; quizzes, 20 points; final exam, 30 points.

[Textbook]

Asashima et al, Online textbook: A Comprehensive approach to Life Science (English version). URL: http://csls-text.c.u-tokyo.ac.jp/index.html

[Reference book, etc.]

（Reference book）

Alberts, The Molecular Biology of the Cell. Older editions are freely searchable online on the PubMed/Books website.

I will also refer to a general biology textbook:
Reece, Urry, Cain, Wasserman, Minorsky, and Jackson. "Campbell Biology", 10th edition. Pearson Education, Inc. 2014

I will provide lecture handouts for each class, hopefully one week in advance.

[Regarding studies out of class (preparation and review)]

For some students, the subject will already be familiar, but the English vocabulary will be new. For others, the biological concepts will be new. Thus, outside work may involve a balance of reading about biology and acquisition of specialized biological vocabulary. I may provide some optional homework problems to help you focus on the key concepts.

[Others (office hour, etc.)]

Office hours: Mondays, 10:00-12:00. I am often in my office, and you are free to drop in--I can always find 5 or 10 minutes to talk about biology.

（attached file 2）

Professors of the core laboratories

https://www.lif.kyoto-u.ac.jp/e/?page_id=139

DIVISION OF INTEGRATED LIFE SCIENCE

Department	Core Laboratory	Professor
Gene Mechanisms	Cell Cycle Regulation	ISHIKAWA,Fuyuki
Cell and Developmental Biology	Cell Recognition and Pattern Formation	UEMURA,Tadashi
Plant Gene and Totipotency	Plant Molecular Biology	KOHCHI,Takayuki
Plant Gene and Totipotency	Molecular and Cellular Biology of Totipotency	NAKANO,Takeshi
Applied Molecular Biology	Biosignals and Response	NAGAO,Masaya
Applied Molecular Biology	Applied Molecular Microbiology	FUKUZAWA,Hideya
Applied Molecular Biology	Molecular Biology of Bioresponse	KATAYAMA,Takane
Responses to Environmental Signals and Stresses	Plant Developmental Biology	ARAKI,Takashi

DIVISION OF SYSTEMIC LIFE SCIENCE

Department	Core Laboratory	Professor
Molecular and System Biology	Single-Molecule Cell Biology	WATANABE,Naoki
Signal Transductions	Genetics	IGAKI,Tatsushi
Functional Biology	Functional Biology	KAKIZUKA,Akira
Systems Biology	Bioimaging and Cell Signaling	MATSUDA,Michiyuki
Systems Biology	Brain Development and Regeneration	IMAYOSHI,Itaru
Genome Biology	Genome Maintenance	MATSUMOTO,Tomohiro
Genome Biology	Genome Damage Signaling	TAKATA,Minoru
Genome Biology	Cancer Cell Biology	HARADA,Hiroshi

Intention survey

① Which job type do you apply for?

- ☐ Associate Professor
- ☐ Assistant Professor

② Which core research laboratory do you want to Join?

Professor _____’s laboratory