

Recruitment for Researchers in the College of Information-Bio Convergence Engineering

I Candidates and Eligibility

Recruitment Area (Code No.)		Expected number of people	Eligibility and Benefits
Decision Neuroscience & Cognitive Engineering LAB (D-09-01)	Post doctor researcher (contract worker)	1	<p>[main task]</p> <ul style="list-style-type: none"> - Perform research project, developing brain cognitive science tasks, and writing papers <p>[Eligibility]</p> <ul style="list-style-type: none"> - A PhD in cognitive or computational neuroscience, engineering, psychology, experimental economics, or a related field <p>[Preferential]</p> <ul style="list-style-type: none"> - Facility with signal processing or computational/quantitative methods - Strong programming background (e.g., MATLAB, R, Python) - Demonstration of potential for excellence (e.g., publishing or submitting journal papers) - A strong background in computational modeling and/or the designing and analysis of fMRI experiments highly desired <p>[Contract]</p> <ul style="list-style-type: none"> - Contract period: 2020.11 - 2021.10 (12 months) * Researchers are contracted for up to one year and can be re-signed through evaluation. - Working hours: 5 days a week (Mon-Fri), 8 hours a day (9: 00 - 18: 00) - Salary: (before tax) 3 million won per month
Immuno-metabolism and Cancer Laboratory (L-09-01)	Masters degree-researcher (contract worker)	1	<p>[main task]</p> <ul style="list-style-type: none"> - Cell-based experiment (cell culture, transfection, drug screening, biological activity and cytotoxicity assay) - Research on mouse disease models (mouse care and maintenance, experiments, blood and tissue analysis) - Study on the physiological and molecular mechanisms related to human diseases using biochemistry and molecular

			<p>biology techniques</p> <p>[Eligibility]</p> <ul style="list-style-type: none"> - Masters degree in a life sciences-related discipline, including biology or molecular biology - Undergraduate with more than 3 years of experience in life sciences and related fields - Experience in biochemistry, cell biology and molecular biology experiments <p>[Preferential]</p> <ul style="list-style-type: none"> - Experience in animal experiments <p>[Contract]</p> <ul style="list-style-type: none"> - Contract period: 2020. 11 - 2021. 10 (12 months) * Researchers are contracted for up to one year and can be re-signed through evaluation. - Working hours: 5 days a week (Mon-Fri), 8 hours a day (09: 00 - 18: 00) - Salary: (before tax) 2 ~ 2.5 million won per month
<p>Bioinformatics laboratory (L-09-02)</p>	<p>Post doctor researcher or researcher (contract worker)</p>	1	<p>[main task]</p> <ul style="list-style-type: none"> - Single-cell sequencing data analysis or algorithm/software development, writing research papers <p>[Eligibility]</p> <ul style="list-style-type: none"> - Ph.D or MS in computer, statistics, mathematics, biology, bioengineering or related field who are interested in bioinformatics and systems biology <p>[Preferential]</p> <ul style="list-style-type: none"> - Experience in R, Python, C++, or javascript - Interests in computational analysis for biology and disease <p>[Contract]</p> <ul style="list-style-type: none"> - Contract period: 2020 11 - 2021 10 (12 months) * Researchers are contracted for up to one year and can be re-signed through evaluation. - Working hours: 5 days a week (Mon-Fri), 8 hours a day (9: 00 - 18: 00) - Salary: (before tax) 3 - 4 million won per month

<p>Calcium dynamics laboratory (L-09-03)</p>	<p>Undergraduate researcher or Post doctor researcher or researcher (contract worker)</p>	<p>2</p>	<p>[main task] - Perform research projects with the molecular and cell biology techniques [Eligibility] - Above the Bachelor's (Master's, doctoral) degree holder - Related to cell and biochemistry major or any. [Preferential] - Who has a research experience is preferred - Who wants to continue the research is preferred (for a long time) [Contract] - Contract period: 2020.11 – 2021.10 (12 months) * Researchers are contracted for up to one year and can be re-signed through evaluation. - Working hours: 5 days a week (Mon-Fri), (negotiable) 8 hours a day (9: 00 - 18: 00) - Salary: (before tax) 2.5 million won per month(for Bachelor's D.) (before tax) 3 million won per month (For MS D.) (before tax) 3.5 million won per month (For Ph.D D.)</p>
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※ Notice

- 1) The criteria for accreditation of official English grades are limited to those published within 2 years of the application deadline.
- 2) The number of applicants can be reduced if there is no qualified person
- 3) Candidates can be selected as candidates for employment, and candidates can be hired according to the candidates' rankings if the candidates for recruitment are found out or there are vacancies in the same field within six months of appointment.

II Contract

- Contract period: Refer to Eligibility and Benefits by Recruitment Area
 - ※ Researchers are contracted for up to one year and can be re-signed through evaluation.
 - ※ In the case of appointment commencement date and contract period, it may be changed after consultation with the research manager.
- Working hours: Refer to Eligibility and Benefits by Recruitment Area
- Place of Work: UNIST

III Reasons for Exclusion, Restriction of Support Age, and Others

○ Exclusion

- Eligible physical examination or reasons for disqualification of employment under Article 33 of the National Civil Service Act. Those who have been rejected as a result are excluded from appointment.
- Persons whose identity has been identified as a result of an inquiry and a survey of candidates for recruitment (final interview candidates) in accordance with the original rules may be canceled through discussion.
- If a person is found to have a final appointment and has been found to be false, application forgery, or fraudulent employment is found, the appointment may be canceled if a reason for disqualification under Article 33 of the Civil Service is found.

○ No age limit

○ For men, military uniform or exemption

○ Other

- Photo registration, school name, credit, family relations, family name, date of birth, and physical condition are not allowed in the application form due to blind employment.
- Those who are eligible for work protection are given additional points according to related laws.
- You must be able to work immediately after appointment.
 - * It is possible to negotiate the first working day and appointment period depending on circumstances such as preventing the spread of COVID-19 and living abroad.

IV How to apply & Procedures

○ Recruitment notice and documents submission period:

2020.9.16. ~ 2020.10.1. 24:00 (15 days)

○ How to submit an application

- Recruiter E-mail: Please send documents by email. (k01291@unist.ac.kr)
- Documents to be submitted: Application form, Cover letter, job and research performance record, personal information third party
1 copy of each written offer agreement (see attached form)

- ※ If it is deemed necessary to perform research duties, major and Evidence data such as credits can be requested separately (used as reference data)

※ How to apply

- The submitted documents are converted into PDF files (after scanning) and sent by e-mail.
- Subject: “(Code No. of Recruitment Area)Application for UNIST Researcher: Your name”
- Note: Applications should be received by 24:00 on the due date

- When filling out the application form, the relevant documents must be prepared in advance. Successful applicants will be canceled due to erroneous input.
All responsibility for harm lies with the applicant.
- According to blind employment, there is no entry of photograph, school name, credit, family relationship, family name, date of birth, and physical condition.
- The following contents and conditions are also prohibited from the application: Name of school, family relationship, date of birth, person, and body
- Procedure: Document Screening, Interview
 - Document review: Establish and evaluate the document evaluation quantitative evaluation criteria and select 3 times the number of expected employees.
 - Interview
 - * Regarding the place where the interviewee resides and the prevention of COVID-19, it may be a untact interview.
 - If there are no qualified candidates for each screening process, the candidates may be reduced or not selected.
 - According to laws and policies, there are additional points for national merit, their families, and people with impairments.
 - If there is no qualified person, applicants may not be selected.

○ Final appointment

- If there are no special matters after conducting an identity check and hiring examination for public officials, hiring candidates will be finally hired.
- The appointment can be canceled if false facts are found in the documents submitted after the final appointment has been confirmed and appointed, or if the reason for disqualification under Article 33 of the National Civil Service Act is found.

V Recruitment Schedule

○ Schedule (*The schedule may change.)

- Application Submission: 2020.9.16. ~ 2020.10.01 24:00 (15 days)
- Announcement of successful applicants: 2020.10.14. (Wed)
- Announcement of Candidates for Job offers: 2020.10.28. (Wed)
- Appointment scheduled for: 2020.11.

VI Contact

○ Ulsan Institute of Science and Technology (UNIST)

College of Information-Bio Convergence Engineering
Academic & Students Affairs Team

- Tel: (052) 217-1844, k01291@unist.ac.kr
- Address: 50, UNIST-gil, Ulsan 44919, Republic of Korea

Job description (D-09-01)

Work	Laboratory researcher
Main task	<ul style="list-style-type: none"> ○ Perform research project, developing brain cognitive science tasks, and writing papers
Necessary knowledge	<ul style="list-style-type: none"> ○ basic knowledge of value-based and/or social decision-making using neuroimaging, computational modeling, Bayesian modeling, and/or machine learning
Necessary technology	<ul style="list-style-type: none"> ○ knowledge of cognitive or computational neuroscience, engineering, psychology and experimental economics ○ Operational and management capabilities for experimental equipment ○ Ability to express oneself and to write document ○ Adequate judgment ability on safety and efficiency
Job attitude	<ul style="list-style-type: none"> ○ Active problem solving attitude ○ Responsibility and thorough safety awareness ○ The ability to understand the organization culture and the attitude to adapt to it
Basic ability	<ul style="list-style-type: none"> ○ Communication skills, calculation skills, problem-solving skills, interpersonal skills, etc.
Required qualification	<ul style="list-style-type: none"> ○ A person who majored in cognitive or computational neuroscience, engineering, psychology, experimental economics, or a related field ○ Experienced in facility with signal processing or computational/quantitative methods ○ Experienced in demonstration of potential for excellence (e.g., publishing or submitting journal papers) ○ Ability of strong programming background (e.g., MATLAB, R,Python) ○ A strong background in computational modeling and/or the designing and analysis of fMRI experiments highly desired
Other job-related qualifications	<ul style="list-style-type: none"> ○ A fluent speaker of English

Job description (L-09-01)

Work	Laboratory researcher
Main task	<ul style="list-style-type: none"> ○ Cell-based experiment (cell culture, transfection, drug screening, biological activity and cytotoxicity assay) ○ Research on mouse disease models (mouse care and maintenance, experiments, blood and tissue analysis) ○ Study on the physiological and molecular mechanisms related to human diseases using biochemistry and molecular biology techniques
Necessary knowledge	<ul style="list-style-type: none"> ○ Basic knowledge of biology and molecular biology ○ Understanding the methods and procedures of biological experiments ○ An ability to find needed information for operating experimental equipment, taking and recording and analyzing data
Necessary technology	<ul style="list-style-type: none"> ○ Basic-technology for life science experiments ○ Operational and management capabilities for experimental equipment ○ Ability to express oneself and to write document ○ Adequate judgment ability on safety and efficiency
Job attitude	<ul style="list-style-type: none"> ○ Active problem-solving attitude ○ Responsibility and thorough safety awareness ○ The ability to understand organizational culture and the good attitude to adapt to it
Basic ability	<ul style="list-style-type: none"> ○ Communication skills, calculation skills, problem-solving skills, interpersonal skills, etc.
Required qualification	<ul style="list-style-type: none"> ○ A person who majored in a life sciences-related discipline, including biology or molecular biology ○ Experienced in biomolecules, cell biology, molecular biology and animal experiments
Other job-related qualifications	

Job description (L-09-02)

Work	Ph.D or MS level laboratory researcher
Main task	<input type="radio"/> Single-cell data modeling and analysis <input type="radio"/> Related algorithms and software development <input type="radio"/> Statistics/Machine learning algorithm development
Necessary knowledge	<input type="radio"/> Programming <input type="radio"/> Interest in data analysis and disease research <input type="radio"/> Statistics
Necessary technology	<input type="radio"/> R, Python or other languages <input type="radio"/> Linux
Job attitude	<input type="radio"/> Active problem solving attitude <input type="radio"/> Responsibility and thorough safety awareness <input type="radio"/> The ability to understand the organization culture and the attitude to adapt to it
Basic ability	<input type="radio"/> Communication skills, calculation skills, problem-solving skills, interpersonal skills, etc.
Required qualification	<input type="radio"/> A person who majored in computer/statistics/math/biology/bio-engineering <input type="radio"/> Experience in data analysis or software development
Other job-related qualifications	<input type="radio"/> A fluency of English

Job description (L-09-03)

Work	Laboratory researcher
Main task	<ul style="list-style-type: none"> ○ Molecular biology techniques (cloning, recombinant protein production, isolation and purification) ○ Cell biology techniques (cell culture, transformation, model animal maintenance and analysis) ○ Antibody generation technique ○ Fluorescence imaging and analysis ○ Bioinformatics-based mediation system development ○ Acquire and maintain the latest techniques
Necessary knowledge	<ul style="list-style-type: none"> ○ basic knowledge of biology and molecular biology ○ understanding the methods and procedures of biological experimentation ○ Ability to operate experimental equipment
Necessary technology	<ul style="list-style-type: none"> ○ Life science knowledge, biotechnology knowledge, experimental technology of chemical biology ○ Operational and management capabilities for experimental equipment ○ Ability to express oneself and to write document ○ Adequate judgment ability on safety and efficiency
Job attitude	<ul style="list-style-type: none"> ○ Active problem solving attitude ○ Responsibility and thorough safety awareness ○ The ability to understand the organization culture and the attitude to adapt to it
Basic ability	<ul style="list-style-type: none"> ○ Communication skills, calculation skills, problem-solving skills, interpersonal skills, etc.
Required qualification	<ul style="list-style-type: none"> ○ A person who majored in life science, biotechnology, and chemical biology. ○ Experienced in biomolecular research and immunology experiment
Other job-related qualifications	<ul style="list-style-type: none"> ○ A fluent speaker of English