

Recruitment for Researchers in the College of Information and Biotechnology(2022-9th)

I Recruitment of researchers

(Code No.) Recruitment Area	Expected number of people	Details
<p>(A-0702) UNIST Vision and Learning Lab</p>	<p>Post doctor researcher (contract worker)</p>	<p>1</p> <p>[Main task] - Research on Computer Vision, Machine Learning</p> <p>[Eligibility] - Those who have graduated from the doctorate program (those who can graduate from the doctorate program before the first day of work)</p> <p>[Preferential] - Related work experience - Special treatment for foreign language (English) fluent - One or more papers from CVPR/ICCV/ECCV,NeurIPS/ICML/ICLR</p> <p>[Contract] - Contract period: 2022. 11. – 2023. 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) 4,400,000 won per month</p>
<p>(E-0101) THz Vacuum Electronics and Electromagnetics Lab</p>	<p>Post-doctoral researcher (contract worker)</p>	<p>1</p> <p>[Main task] - Design/Analysis/Experiment of high power RF devices for magnetized fusion reactor - ECH/ECCD launcher design - Writing research papers</p> <p>[Eligibility] - Doctoral degree (expected to receive Ph.D before the date of contract) - Electrical engineering, physics or nuclear engineering</p> <p>[Preferential] - Related research experience - Experience in RF experiments and design - Special treatment for fluency in foreign language (English)</p> <p>[Contract] - Contract period: 2022.11 – 2023. 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>

<p>(B-0301) Materials Chemistry Lab</p>	<p>Researcher or Postdoctoral researcher (contract worker)</p>	<p>1</p>	<p>[Main task]</p> <ul style="list-style-type: none"> - Cancer diagnosis and therapy research - Research on nanocarriers for regulating tumor microenvironmental responses - Cell imaging and toxicity testing <p>[Eligibility]</p> <ul style="list-style-type: none"> - Ph.D. in related research field - Master's degree with more than 5 years of research experience - Major in Biology, Biotechnology, Chemical biology <p>[Preferential]</p> <ul style="list-style-type: none"> - Related experience in Protein Isolation and Refining - Related research experience in oncology - Experienced in Biomolecular, animal testing research and Immunology experiment <p>[Contract]</p> <ul style="list-style-type: none"> - Contract period: 2022.11 – 2023.12 (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) 3.0~5.0 million won per month
<p>(D-0901) New Design Studio (The Department of Design)</p>	<p>Research assistant (intern)</p>	<p>1</p>	<p>New Design Studio (https://newdesign.studio/) at the Department of Design is offering a research assistant internship for those with bachelor's degree in design or engineering.</p> <p>[Main task]</p> <ul style="list-style-type: none"> - Planning and performing living lab activities - Design visualization <p>[Eligibility]</p> <ul style="list-style-type: none"> - Bachelor's degree in design or engineering <p>[Preferential]</p> <ul style="list-style-type: none"> - Having been received a global design award in the recent three years (e.g., iF, Red Dot, IDEA) - Fluent English speaking <p>[Contract]</p> <ul style="list-style-type: none"> - Contract period: 2022.10 – 2023.04 (or maximum six months from the first day of contract) - Working hours: 2–5 days a week (negotiable) 8 hours a day (9:00 – 18:00) - Salary: Max. 2,300,000 KRW (when working full-time, before tax)
<p>(E-0902) ICCL (Intelligent Computing and Codesign Lab)</p>	<p>Researcher or Postdoctoral researcher (contract worker)</p>	<p>2</p>	<p>[Main task]</p> <ul style="list-style-type: none"> - perform research project <p>[Eligibility]</p> <ul style="list-style-type: none"> - Electrical engineering or computer engineering major - Background in AI/ML and/or digital systems design - Master Degree or Ph.D. <p>[Preferential]</p> <ul style="list-style-type: none"> - Related research experience - Special treatment for foreign language (English) fluent <p>[Contract]</p> <ul style="list-style-type: none"> - Contract period: 2022.10 – 2023.10 (12 months)

			<p>* Researchers are contracted for up to one year and can be re-signed through evaluation.</p> <ul style="list-style-type: none"> - Working hours: 5 days a week (Mon-Fri), 8 hours a day (9: 00 – 18: 00) - Salary: 2 million won per month (before tax) for researcher with a masters degree, and 3~4 million won per month (before tax) for researcher with a Ph.D. degree (negotiable depending on experiences) <p>* Note: If the applicant requires a visa, he/she must have either (i) a Ph.D. degree (not necessarily from a Korean university) or (ii) a masters degree from a Korean university, at the time of application.</p>
(L-0903) Genetic and Genomic Toxicology Lab	Researcher (contract worker)	1	<p>[Main task]</p> <ul style="list-style-type: none"> - Perform research project on studying the role of HelQ in DNA Repair <p>[Eligibility]</p> <ul style="list-style-type: none"> - BSc in Biology or related field <p>[Preferential]</p> <ul style="list-style-type: none"> - Experience in studying DNA repair pathways - English language fluent <p>[Contract]</p> <ul style="list-style-type: none"> - Contract period: 2022.10 – 2023.02 (4 months) - Working hours: 5 days a week (Mon-Fri), 4 hours a day (13:30 – 18:00) - Salary: (before tax) 1 million won per month

※ **Notice**

- 1) Applicants can apply in only one field.
- 2) The criteria for accreditation of official English grades are limited to those published within 2 years of the application deadline.
- 3) The number of applicants can be reduced if there is no qualified person.
- 4) 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.
- 5) Foreign applicants must meet the conditions to obtain an E-3 visa or suitable visa for appointment.

II

Contract

- Contract period: Please refer to the above details.
 - ※ In the case of appointment commencement date and contract period, it may be changed after consultation with the research manager.
- Working hours: Please refer to the above details.
- 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

- Application period: 2022.08.31.~09.16.,24:00 (*Korean time standard)
- How to apply: Online application (<https://unist-researcher.recruiter.co.kr/>)
 - ※ If it is deemed necessary to perform research duties, major and Evidence data such as credits can be requested separately (used as reference data)
- When filling out the application, 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.
- Applicants must not reveal their personal information (ex: photo, school name, academic advisor's name, GPA, family information, birth year and date and physical conditions)
- 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 general hiring examination, 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.
- If an unsuccessful candidate wishes to retrieve one's application document, request can be made within 2 weeks of announcement.

V Recruitment Schedule

- Schedule (*The schedule may change.)
 - Application period: 2022.08.31.~09.16., 24:00 (*Korean time standard)
 - Announcement of successful applicants: 2022.9.26
 - Announcement of Candidates for Job offers: 2022.10.6.
 - Appointment scheduled for: 2022.11.~
- Ulsan Institute of Science and Technology (UNIST)
College of Information and Biotechnology/ Academic & Students Affairs Team
- Tel: (052) 217-1844, ib-recruit@unist.ac.kr
- Address: 50, UNIST-gil, Ulsan 44919, Republic of Korea

Job description (A-0702)

Work	Laboratory researcher
Main task	<input type="radio"/> Research on Computer Vision, Machine Learning - 3D pose estimation of face/body/hands, 3D reconstruction of single RGB, motion recognition, deep learning, generational hostile network, graph convolution network, data augmentation, active learning, etc.
Necessary knowledge	<input type="radio"/> Expertise in machine learning, computer vision, and software
Necessary technology	<input type="radio"/> Skills for artificial intelligence, machine learning, computer vision, and software <input type="radio"/> Problem solving skills <input type="radio"/> Ability to establish logical thinking, research plans, and report results <input type="radio"/> Ability for laboratory safety
Job attitude	<input type="radio"/> Active Collaboration and Attitude to Solve Problems <input type="radio"/> Responsibility and awareness of laboratory safety <input type="radio"/> Understand the school culture and actively adapt to school
Basic ability	<input type="radio"/> Communication ability, mathematical ability, problem solving ability, resource management ability, etc.
Other job-related qualifications	<input type="radio"/> Related work experience <input type="radio"/> Special treatment for foreign language (English) fluent

Job description (E-0101)

Work	Laboratory researcher
Main task	<input type="radio"/> Design of vacuum tubes <input type="radio"/> RF waveguides and antenna design <input type="radio"/> Experiment of RF components and antennas
Necessary knowledge	<input type="radio"/> basic knowledge of RF engineering <input type="radio"/> understanding vacuum devices, high power RF sources <input type="radio"/> Ability to simulate various RF tools such as CST, HFSS, etc
Necessary technology	<input type="radio"/> Electrical engineering, physics, nuclear engineering <input type="radio"/> Vacuum tube design and high power RF experiments <input type="radio"/> Ability to express oneself and to write document <input type="radio"/> Adequate judgment ability on safety and efficiency
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.
Other job-related qualifications	<input type="radio"/> A fluent speaker of English

Job description (B-0301)

Work	Laboratory researcher
Main task	<input type="radio"/> Cancer diagnosis and therapy research <input type="radio"/> Cell imaging and toxicity testing <input type="radio"/> Research on nanocarriers for regulating tumor microenvironmental responses <input type="radio"/> Nano-bio material-based diagnostic kit technology development
Necessary knowledge	<input type="radio"/> Basic knowledge of Biology and Molecular Biology <input type="radio"/> Understanding biological testing methods and procedures <input type="radio"/> Ability to operate experimental equipment
Necessary technology	<input type="radio"/> biology, biotechnology, chemical biology experiment skills <input type="radio"/> Operational and management capabilities for experimental equipment <input type="radio"/> Ability to express oneself and to write document <input type="radio"/> Adequate judgment ability on safety and efficiency
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.
Other job-related qualifications	<input type="radio"/> A fluent speaker of English

Job description (D-0901)

Work	Laboratory researcher
Main task	<input type="radio"/> Planning and performing living lab activities <input type="radio"/> Design visualization
Necessary knowledge	<input type="radio"/> Knowledge in living labs <input type="radio"/> Knowledge and understanding about service design
Necessary technology	<input type="radio"/> Graphic design tools <input type="radio"/> Ability to express oneself and to write document
Job attitude	<input type="radio"/> Proactive problem solving attitude <input type="radio"/> The ability to understand the teamworking culture and the attitude to adapt to it
Basic ability	<input type="radio"/> Communication skills, calculation skills, problem-solving skills, interpersonal skills, etc.
Other job-related qualifications	<input type="radio"/> Fluent English speaking

Job description (E-0902)

Work	Laboratory researcher
Main task	<input type="radio"/> Research on domain-specific accelerators (e.g., deep learning, cryptography) <input type="radio"/> Research on algorithm/system design and optimization <input type="radio"/> Research on NPU design automation <input type="radio"/> Development of software system (e.g., compiler) or FPGA prototyping
Necessary knowledge	<input type="radio"/> knowledge of deep learning <input type="radio"/> understanding of digital system design <input type="radio"/> Ability to design and implement efficient digital hardware or software systems
Necessary technology	<input type="radio"/> Electrical engineering in particular in semiconductor or FPGA design <input type="radio"/> Computer engineering (e.g., systems programming) <input type="radio"/> Ability to express oneself and to write document <input type="radio"/> Adequate judgment ability on safety and efficiency
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.
Other job-related qualifications	<input type="radio"/> A fluent speaker of English

Job description (L-0903)

Work	Laboratory researcher
Main task	<ul style="list-style-type: none"> ○ Cell culture, isolation of a genomic DNA ○ Treatment of cells with genotoxins ○ Analyze genetic relationship of HeIQ with other DNA repair proteins
Necessary knowledge	<ul style="list-style-type: none"> ○ Basic knowledge of biology ○ Understanding the methods used in biological experimentation ○ Ability to operate experimental equipment
Necessary technology	<ul style="list-style-type: none"> ○ Knowledge of molecular and cellular biology research methods ○ Ability to operate basic instrumentation needed for biological research ○ Written and oral communication skills to generate progress reports ○ Knowledge of laboratory safety protocols
Job attitude	<ul style="list-style-type: none"> ○ Active problem solving attitude ○ Work responsibly and under consideration of laboratory safety protocols ○ Work as a member of a research team
Basic ability	<ul style="list-style-type: none"> ○ Communication skills, problem-solving skills, interpersonal skills, etc.
Other job-related qualifications	<ul style="list-style-type: none"> ○ Fluency in English, the language used in the laboratory