

Recruiting Labs & Requirements for Prospective Students



SEJONG UNIVERSITY
GRADUATE SCHOOL

YUN Unil

E-mail	yunei@sejong.ac.kr
Major	Computer Engineering
Available Degree Program	☐ Master's ☒ Ph.D ☐ Joint Master's-Ph.D
Research Field	[Ph.D. Recruitment Spring 2027/Fall 2027] Dara Mining & Data Analysis Lab @ Sejong University Prof. Unil Yun (h-index: 50)  Research Areas Data Mining · Knowledge Discovery, Data Analytics, Machine Learning Google Scholar : https://scholar.google.com/citations?user=wkSqFSwAAAAJ&hl=en  Why Join Us • Publications in Top 10% SCI journals • Strong supervision enabling SCI-indexed journal publications • Scholarships available • Research Assistant (RA) positions available  Required Documents • Academic Transcripts • Degree Certificates (B.S. & M.S.) • CV • Research Statement  Contact: yunei@sejong.ac.kr (https://prof.sejong.ac.kr/yunei)
Applicant Requirements	 Eligibility (REQUIRED) • Applicants must hold BOTH: • B.S. degree in Computer Engineering or a closely related field • M.S. degree in Data Analysis, Artificial Intelligence, Data Mining, Computer Engineering or a closely related field • Undergraduate GPA $\geq 3.5 / 4.0$ (or $4.0 / 4.5$) • Proficient in C/C++ • English/Korean proficiency preferred • TOEIC 800+ (or equivalent) • Asian students welcome
Estimated Stipend (per month, USD)	900 ~ 1100USD
Funding Source	☐ Research Grant (RA) ☐ University Scholarship ☐ Department Scholarship ☒ Other: Research Project Fund
Payment Conditions	Depending on applicant's ability



Sang-Don Han

E-mail	shan@sejong.ac.kr
Major	Chemistry
Available Degree Program	☐ Master's ☒ Ph.D ☒ Joint Master's-Ph.D
Research Field	We aim to develop advanced critical-material-free and cost-effective secondary batteries with higher energy density, longer cycle life, and improved thermal safety. To achieve this goal, our research focuses on: • Understanding heterogeneous cell aging behaviors and failure mechanisms through electrochemical diagnostics. • Elucidating electrolyte solvation structures and interfacial reaction mechanisms using operando multi-modal characterization. • Establishing design principles for next-generation electrode materials and electrolyte formulations. We are also expanding our research capabilities to investigate interface chemistry in water electrolysis, catalysts, and fuel cells.
Applicant Requirements	• Motivated and enthusiastic graduate students • B.S. degree in Chemistry or a related science/engineering discipline • Minimum GPA of 3.75/4.5 (approximately 3.33/4.0) • English proficiency test score required • Strong interest in experimental research, data processing, or both
Estimated Stipend (per month, USD)	MS: ~850 USD/month + incentive Ph.D: ~1,100 USD/month + incentive
Funding Source	☒ Research Grant (RA) ☐ University Scholarship ☐ Department Scholarship ☐ Other: _____
Payment Conditions	



Woosuk Choi

E-mail	wschoi@sejong.ac.kr
Major	Atmospheric Science, Environmental Engineering, Statistics, Artificial Intelligence
Available Degree Program	☐ Master's ☒ Ph.D ☒ Joint Master's-Ph.D
Research Field	AI for Science such as: - Weather prediction - Anomaly detection - Air quality prediction - Quantum-inspired Artificial Intelligence - Renewable energy prediction - Environmental data analysis
Applicant Requirements	Ability to collaboratively write SCI paper High-level Python skill
Estimated Stipend (per month, USD)	Approximately \$1,000
Funding Source	☒ Research Grant (RA) ☒ University Scholarship ☐ Department Scholarship ☒ Other: Research Fund
Payment Conditions	



Oh Sangjin

E-mail	osjin@sejong.ac.kr
Major	Artificial Intelligence & Data Science (Focus on military applications)
Available Degree Program	☒ Master's ☒ Ph.D ☒ Joint Master's-Ph.D
Research Field	Warfare theories emerging from the integration of cutting-edge technologies—such as AI, data analytics, drones, and robotics—into military capabilities. The research will specifically focus on recent contemporary conflicts, particularly the ongoing Russia-Ukraine War.
Applicant Requirements	A student who possesses a comprehensive understanding of both advanced technologies and military history/doctrine.
Estimated Stipend (per month, USD)	1,200 ~ 1,500 USD (depending on knowledge and experience)
Funding Source	☒ Research Grant (RA) ☐ University Scholarship ☐ Department Scholarship ☐ Other: _____
Payment Conditions	Satisfactory performance as a Research Assistant



Jong-Hwan Kim

E-mail	jongkim@sejong.ac.kr
Major	Defense AI Robotics Convergence Engineering
Available Degree Program	☒ Master's ☒ Ph.D ☒ Joint Master's-Ph.D
Research Field	We are seeking motivated international graduate students to join our research group at Sejong University. Our research focuses on robotics, artificial intelligence, and semiconductor CMP (Chemical Mechanical Planarization), including autonomous systems, intelligent algorithms, process modeling, optimization, and defect reduction. Students from engineering, computer science, materials science, and related fields are welcome to apply.
Applicant Requirements	- Time-series data analysis skill with AI - Multi Robot operation related experience
Estimated Stipend (per month, USD)	- \$1000 ~ 2000
Funding Source	☒ Research Grant (RA) ☐ University Scholarship ☐ Department Scholarship ☐ Other: _____
Payment Conditions	



Il-Moon Chung

E-mail	imchung@sejong.ac.kr
Major	Civil and Environmental Engineering
Available Degree Program	☐ Master's ☒ Ph.D ☐ Joint Master's-Ph.D
Research Field	Applied water engineering, Groundwater hydrology, Water-AI, Watershed modeling (SWAT), Groundwater modeling (MODFLOW), Integrated surface-groundwater modeling (SWAT- MODFLOW), Machine learning, Deep learning https://scholar.google.com/citations?hl=ko&user=QlAJjXwAAAAJ
Applicant Requirements	GIS, Statistical analysis, Computational hydrology, Strong programming and analytical skills with interest in Artificial Intelligence. Applicants should be able to communicate effectively in English (high English proficiency)
Estimated Stipend (per month, USD)	1000~1500 USD(Negotiable) , No tuition fee.
Funding Source	☒ Research Grant (RA) ☐ University Scholarship ☐ Department Scholarship ☐ Other: _____
Payment Conditions	Salary can be increased according to the performance.



EunHee Kim

E-mail	eunheekim@sejong.ac.kr
Major	Radar Signal Processing
Available Degree Program	☒ Master's ☐ Ph.D ☐ Joint Master's-Ph.D
Research Field	Radar signal processing for detecting, tracking and classifying targets like drone, car, missile etc.
Applicant Requirements	Good academic records on mathematics and digital signal processing. Programming ability (matlab or python) English writing and speaking
Estimated Stipend (per month, USD)	\$600
Funding Source	☒ Research Grant (RA) ☐ University Scholarship ☐ Department Scholarship ☐ Other: _____
Payment Conditions	



Mosab AL Kaseem

E-mail	mosabkaseem@sejong.ac.kr
Major	Materials Science/Chemistry
Available Degree Program	☒ Master's ☒ Ph.D ☒ Joint Master's–Ph.D
Research Field	My research focuses on the development of multifunctional and corrosion-resistant coatings for lightweight alloys through advanced surface engineering and hybrid material design. I investigate coating formation mechanisms, interfacial properties, and electrochemical behavior of modified oxide and hybrid layers to enhance durability, self-healing, and photocatalytic performance. By combining advanced experimental characterization techniques with computational modeling, my work aims to elucidate the fundamental relationships between microstructure, electronic properties, and environmental stability. Ultimately, my goal is to develop sustainable, scalable, and high-performance protective coatings for applications in energy, transportation, and environmental technologies.
Applicant Requirements	Applicants should have a strong academic background and excellent English proficiency. A solid foundation in materials science, electrochemistry, and surface engineering, together with strong experimental and analytical skills, is essential. Experience in materials characterization, electrochemical testing, computational modeling, AI, and machine learning is desirable. Candidates should demonstrate strong motivation, research ethics, teamwork, adaptability, and a willingness to learn advanced techniques in surface modification and functional materials research.
Estimated Stipend (per month, USD)	900 \$
Funding Source	☐ Research Grant (RA) ☐ University Scholarship ☐ Department Scholarship ☐ Other: _____
Payment Conditions	Please note that the salary may vary depending on qualifications, research contributions, incentives, and available funding.



Lilia Tightiz

E-mail	liliatightiz@sejong.ac.kr
Major	Computer Engineering
Available Degree Program	☒ Master's ☐ Ph.D ☐ Joint Master's-Ph.D
Research Field	Quantum and Hybrid Optimization for Power Systems and Smart Grids
Applicant Requirements	• Interest in power systems, smart grids, energy optimization, and quantum computing • Basic knowledge of optimization, power system analysis, or machine learning • Programming skills in Python, MATLAB, or similar tools • Strong motivation to conduct research in quantum and hybrid optimization for power systems • Good communication skills in English • Experience with QUBO, QAOA, quantum annealing, smart grids, microgrids, or EV optimization is preferred but not required
Estimated Stipend (per month, USD)	Negotiable
Funding Source	☒ Research Grant (RA) ☒ University Scholarship ☒ Department Scholarship ☐ Other: _____
Payment Conditions	Financial support is subject to the successful approval and availability of research project funding and/or university scholarship eligibility. The stipend amount and payment period will be determined after funding is confirmed.



Sri Renukadevi Balusamy

E-mail	renubalu@sejong.ac.kr
Major	Food Science and Biotechnology
Available Degree Program	☒ Master's ☐ Ph.D ☒ Joint Master's–Ph.D
Research Field	AI, Machine Learning/Deep Learning, Nanotechnology, nanoparticle toxicity prediction, biological response modeling, biological data analysis, and AI-based web tool development.
Applicant Requirements	Background in Nanotechnology and experience in Machine Learning/Python preferred. Strong Machine Learning skills and interest in biological data and interdisciplinary research are desirable. Experience with biological datasets is an advantage.
Estimated Stipend (per month, USD)	Master's: KRW 700,000–900,000/month Integrated Master's–Ph.D.: KRW 900,000–1,200,000/month
Funding Source	☐ Research Grant (RA) ☐ University Scholarship ☐ Department Scholarship ☐ Other: _____
Payment Conditions	Stipend may be adjusted depending on qualifications and research experience.

