

PhD Student (Research and Teaching Assistant) in Environmental Technology – Ghent University Global Campus, Korea

Introduction

Ghent University Global Campus (GUGC; <http://www.ugent.be/globalcampus/en>) is an integrated campus of Ghent University, Belgium, and the first European university to be part of the Incheon Global Campus (IGC) in Incheon, South Korea. Ghent University is one of the top 100 universities in the world (ARWU ranking, US News), and in the top 100 for the subjects Biotechnology and Environmental Science (2023 QS subject ranking #48 in global). Ghent University Global Campus is an equal opportunities employer.

Centre for Green Chemistry and Environmental Biotechnology (GREAT) is one of the five existing research centers of GUGC. It was established in 2015 with the aim to deliver scientific outcomes that will have a real impact on consolidation of environmental issues, themes, and topics, and to do this under one umbrella to highlight their interconnectedness and interdisciplinary nature. GREAT targets at the practical development of solutions to mitigate pollution in air and aqueous environments via application of advanced functional materials and corresponding process technologies. In the 8 years' development, GREAT has published >200 papers and received national and international funding support (e.g. NRF, KEITI, NERI, BOF, FWO, Horizon2020, etc.), and built strong collaborations with Korea national and international top universities.

Job Summary

Full-Time PhD Student (Research and Teaching Assistant) in Environmental Technology – Ghent University Global Campus

Department: Centre for Environmental and Energy Research (KR01 – Department of Environmental Technology, Food Technology and Molecular Biotechnology, Ghent University Global Campus, Korea)

Degree: Master in Chemistry and/or Chemical Engineering

Contract: 1 year, followed by 1 year on the strict condition that the previous term was given a positive evaluation (based on (1) research proposal for PhD and (2) scientific progress), and followed by 2 times 2 years (again on condition that the previous term was given a positive evaluation); for a grand total of maximal 6 years.

Occupancy rate: 100%

Vacancy Type: Assistant Academic Staff (AAP)

Last application date: October 31, 2024 (Applicants are encouraged to apply immediately as the position will be filled upon finding the right candidate)

Starting date: December 1, 2024 (negotiable)

Scientific Supervisor: Prof. dr. ir. Philippe M. Heynderickx (Philippe.Heynderickx@Ghent.ac.kr)

Job Position

Ghent University Global Campus, South Korea, has a vacancy for a PhD Student (Research and Teaching Assistant) in Environmental Technology in the Centre for Green Chemistry and Environmental Biotechnology (GREAT) at Ghent University Global Campus, starting from December 1, 2024 (open to negotiation). The request(s) and standard(s) for the PhD in GUGC is equivalent to Ghent University home campus (the phd certificate will awarded by Faculty of Bioscience Engineering, Ghent University, Belgium).

The terms of employment at GUGC are comparable to those at the campus in Ghent, Belgium. However, free student accommodation and a yearly travel budget are foreseen. GUGC is an equal opportunities employer. This position allows promising scientists to carry out research for a period of up to maximal 6 years, under the supervision of Professor Philippe M. Heynderickx at Ghent University Global Campus, Korea. In addition, he/she will also be assigned a co-promoter. PhD degree diploma will be from Ghent University, Belgium.

As a teaching assistant, the PhD candidate is supposed to spend (maximal) 50% of his/her time in teaching activities pertaining to undergraduate mathematics courses that include the topics Chemistry (organic/inorganic/green), Engineering and Environmental related courses (Air Treatment, Water Treatment...). These activities include supervision of exercise/tutorial (wet/dry) sessions, preparing and grading tests/exams and the supervision of bachelor projects.

Apart from the teaching activities, the PhD candidate is supposed to perform research in the area of environmental technology (catalyst development, integration of catalysts for air/water purification, specifically in the area of modelling). In this regard, the candidate is expected to complete a doctoral research proposal containing a extensive literature review, a set of research objectives and research plan within the first six months of joining. This research proposal will need to be approved by the GUGC Campus Council in order to ensure renewal of the first contract with GUGC.

Job Qualification (Profile of the Candidate)

- ◆ Hold, or expect to hold, by October 31, 2024, an Master degree in one of the following disciplines: Chemistry or Chemical Engineering.
- ◆ Have solid and relevant lab experimental experiences in the aforementioned research area; have publication(s) in environmental science and technologies is a plus.
- ◆ Have an excellent command of English (e.g. a minimum score of 80 on the TOEFL iBT test or 6.5 IELTS test), and good academic writing and presentation skills – GUGC's working medium is English, working fluently English is a must.

- ♦ Team spirit and inquisitive, self-motive attitude as well as independent learning/research ability are essential; can take leadership among team members.

Job Description

- ♦ Assist his/her supervisor(s) in teaching undergraduate courses at Ghent University Global Campus, Korea (general chemistry, engineering).
- ♦ Conduct research in the area of Environmental Engineering Science related to environmental pollution mitigation via catalysis/photocatalysis and reactor design for air/water purification purposes.
- ♦ The detailed working plan will be explored upon the background and interests of the individual candidate (e.g. supporting national/international fellowship application, pursuing phd study, transferring technology for application and commercialization).
- ♦ To finalize the doctoral thesis (to obtain PhD an doctoral degree) within the given period with good publications.
- ♦ To assist his/her supervisor(s) with tasks in ongoing and future R&D projects and research-led educations (e.g. Master/Bachelor/Highschool student(s) teaching activities).

Selection Criteria

- ❖ Scientific background and knowledge
- ❖ Working experiences

Application Documents

- ❖ Motivation letter (1-page)
- ❖ Full resume (CV), including at least 2 references' contacts
- ❖ Copy of the certificates and transcripts for education
- ❖ Transcripts (overview of study results and ranking)
- ❖ Others (subjected to the supervisor's requirement in the later stage)

The documents shall be merged into a single PDF file (< 10MB) and sent to Philippe.Heynderickx@Ghent.ac.kr (Subject line: GREAT_Application_Surname). Please kindly noted only the selected candidate(s) will be contacted for the next step.

Application Process and Interview

- ♦ Interviews (in-person or online) will take place in stages from the first available time.
- ♦ Applicants are encouraged to apply immediately as the position will be filled upon finding the right candidate.

We reserve the right to hold applications on file for potential future job openings.

For submission of your file and any inquiries, please contact us via e-mail: Philippe.Heynderickx@Ghent.ac.kr

Selection Process

- ♦ CV Screening -> Interview(s) (including oral evaluation and written evaluation) -> Internal committee (Prof. Philippe Heynderickx, Prof. Di Wu and (HR) Ms. Jungmin Suh) -> Approval -> Acceptance Notice to the candidate selected.

Compensation & Benefits for the candidate selected.

- ♦ Basic Term of the Contract
 - 1 year-contract term (renewable upon committee's evaluation, Max. 2 years for Research Associate, Max. 4 years for Research Assistant/PhD candidate)
- ♦ Salary
 - starts from Gross Annual Salary 27,375,000 KRW (Monthly Salary of 2,281,250 KRW, Gross)
- ♦ Two additional bonuses in June (92% of monthly salary) and December (100% of monthly salary)
- ♦ Housing unit or Housing Allowance
 - A single dormitory unit operated by Incheon Global Campus (IGC) will be provided for non-Koreans. If the selected candidate has the Korean nationality or if the selected candidate is a permanent resident in Korea, then a housing unit will not be provided. Instead, a monthly Housing Allowance of 725,000 KRW will be provided.
- ♦ Private Health Insurances
 - Marsh private health insurance provided, including basic medical reimbursements
- ♦ Extensive annual paid leave and holidays
 - The selected candidate shall have maximal 35 days paid annual leave per year.
 - Additional holiday from Christmas (December 25) to New Year (January 1).
- ♦ Others: to be discussed