

Title: Open positions available at Pukyong National University, Busan Korea

Dear all,

We will have two or more positions open (for Master and/or Ph.D students) at the Intelligent Systems Laboratory (ISL, <https://sites.google.com/site/isystemslab>), Department of Chemical Engineering, Pukyong National University (www.pknu.ac.kr) available from March 1st, 2016. The students will be involved in one of my projects regarding process design and analysis of biofuel production from seaweeds. The scopes of projects are as follows:

- Design and analysis of seaweed-based biorefinery
 - Modeling and analysis of seaweed mass cultivation in open sea.
 - Modeling, design, and analysis of seaweed fractionation for production of high value chemicals
 - Life cycle assessment (LCA) of biochemical and thermochemical conversion of seaweed biomass into fuels and chemicals
 - Design of integrated biorefinery based on seaweeds through numerical optimization
 - Development of novel soft-sensor for estimation of biomass feedstock compositions

These projects are supported by Korean governments including Ministry of Education and Ministry of Ocean and Fisheries.

The successful candidates for the positions will have a strong background in chemometrics, chemical process simulation, life cycle assessment, and/or supply chain optimization. In addition, familiarity with commercial/academic software (Simca-P, R, GAMS, MATLAB, Gabi, Open LCA, Aspen plus/HYSYS, ...) would be advantage. They also will be fluent in English, have good writing and communication skills, and have reasonable laboratory experience. A master/Ph.D student will receive a monthly stipend plus tuition fee.

A Qualified candidate with Master degree can start working at ISL as a researcher before March 1st, 2016. Interested applicants should submit a detailed CV, a brief statement of research interests and experience, relevant publications, and letters of recommendation. For any inquiry, feel free to contact me (jayliu@pknu.ac.kr).

Thank you

J. Jay Liu

Associate Professor

Department of Chemical Engineering

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