



Our company has established itself as a leading engineering company in the oil & gas industry, and in the era of energy transition, we are preparing for the future by promoting various sustainable business based on eco-friendly technologies and green hydrogen.

Technology development is one of our goal, and now we are seeking a right person who will be with us.

I . Job Category : Eco-friendly Construction Technology

II. Position Title : Building Energy Research

III. Position Details

1 Position Summary

- ◎ Responsibilities include developing technologies regarding zero energy building design and new insulation materials such as vacuum insulation panel for buildings.

2 Position R&R (Roles & Responsibilities)

- **Zero Energy Building Research & Development**
 - Building Energy Simulation
 - Passive & Active Technology Design & Development
 - Renewable energy Planning, Application & Evaluation
 - Zero Energy Building optimal design
- **Insulation Materials Development & Technical Support**
 - New Insulation Materials Development & Commercialization
 - Thermal Transfer Analysis
 - Insulation Design Code Evaluation
 - Insulation Performance Evaluation
(thermal conductivity, Long-Term Performance Evaluation...)
- **Analysis Tool**
 - Building Energy Performance Analysis (Trnsys, EnergyPlus, IDA ICE...)
 - Thermo/Fluid Flow Analysis (Fluent ...)
 - Machine Learning, AI (Python, Matlab ...)

3 Qualifications

1) Major

- Architecture, Machinery/Electricity, Building Equipment & Energy Engineering (Master's Degree or Higher)

2) Work experience (preferential treatment)

- Experience in building energy field and eco-friendly architecture research.
- Experience in designing, applying and evaluating new and renewable energy in buildings.
- Experience in performing and evaluating certification related to eco-friendly buildings and building energy.

3) Skills / Specialized Knowledge

- Building Energy Analysis Application Specialist
(Trnsys, EnergyPlus, IDA ICE ...)
- Professional Engineer Building Mechanical Facilities
- PhD Holders and Prospective Applicants
- No Difficulty in Using English and Korean in Biz. Situations

I . Job Category : Eco-friendly Construction Technology

II. Position Title : Building Materials Research

III. Position Details

1 Position Summary

- ◎ Responsibilities include developing technologies regarding eco-friendly building materials and air quality systems

2 Position R&R (Roles & Responsibilities)

- **Eco-friendly / Functional Building material development**
 - Antibacterial / Antivirus materials, Application & Evaluation
 - VOC Adsorption Technology, Development & Evaluation
 - Functional nano materials for building material, Application & Evaluation
- **Indoor Air Quality Research**
 - Conduction research on IAQ issues and possible solution
 - Air Cleaning Tech. Application & Evaluation
 - Biological contaminants Control, Application & Evaluation
- **Research for hazardous substances**
 - Effect of indoor air quality on occupants' health
 - Substitute for hazardous chemicals of building material

3 Qualifications

1) Major

- Chemical Engineering/Chemistry, Materials Engineering
(Master's Degree or Higher)

2) Work experience (preferential treatment)

- Experience in IAQ field and eco-friendly architectural material research.
- Experience in development and evaluating related to Functional buildings materials (photo catalyst, VOC adsorption, anti-bacterial)

3) Skills / Specialized Knowledge

- Experienced analytical Instrument (GC/MS, HPLC)
- Experienced CFD simulation (FLUENT, CONTAMW, etc.)
- No Difficulty in Using English and Korean in Biz. Situations

I . Job Category : Hydrogen Lab

II. Position Title : Water Electrolysis System Research

III. Position Details

1 Position Summary

◎ Dynamic model for water electrolysis system is going to be developed through industry-university cooperation project. Successful candidate will be involved in this project and lead the project. After completing the model, we will expand it to other projects to secure differentiated competitiveness in green hydrogen production technology.

2 Position R&R (Roles & Responsibilities)

- Technology transfer from university, and internalizing
- Data management to develop the model
- Verification based on pilot electrolysis facility
- Modification and update for reliability improvement
- Expanded application to following electrolysis project
- Continuous revision, update and validation
- Support to other projects as a model specialist

3 Qualifications

- Master's degree in mechanical engineering or chemical engineering, and otherwise equivalent course/experience in related field
- Research or working experience of electrochemistry and numerical analysis
- Research or working experience of dynamic model
- Proficiency in using Aspen HYSYS, Matlab
- Either inhabitant of Korea or instituted, work experienced in Korea

I . Job Category : Hydrogen Lab

II. Position Title : Water Electrolysis Specialist

III. Position Details

1 Position Summary

◎ Membrane technology for water electrolysis is going to be developed as followings.
Successful candidate will be involved in this project and lead the project.

2 Position R&R (Roles & Responsibilities)

- Membrane technology development for water electrolysis
 - Design, manufacturing and property evaluation for membrane
 - Scale-up production process development for membrane with large dimension
- Membrane performance evaluation for water electrolysis
 - Establishment and operation of evaluation platform for water electrolysis
 - Membrane performance evaluation for cell application
- Technology development for water electrolysis stack and key materials

3 Qualifications

- Master or Doctor's degree in electrochemistry, polymer engineering, material engineering or chemical and otherwise equivalent course/experience in related field
- Research or working experience in membrane design/manufacture/research at university, research institutes or companies
- Research or working experience in water electrolysis stack operation and evaluation
- Either inhabitant of Korea or instituted, work experienced in Korea

Recruitment Process

- 1st : CV Screening
- 2nd : Face to Face Interview
(2 Times : Technical interview and the final interview with the related director level)
- 3rd : Job offer & Acceptance

How to Apply

- 1) Visit at the following website (<http://www.gsenc.com/Recruit/Recruit.aspx>)
※ You are recommended to access to this web via 'Chrome'
- 2) Click 'Eng' button to change language on the upper right
- 3) Click 'Career' Tab and scroll down ► Click 'Job Posting' Tab
- 4) You can see each 'Job position' under 'Position Title' ► Please click one of the job positions - that you'd like to apply ► You can see more information about the positions you apply for
► Please click 'Apply' button
- 5) Please Click '**Create New Account**' at first and then you can login with your registered Email & Password.
- 6) Please fill out the form you are asked in each tab.

Period of Submission

- By Jan. 15th , 2023

Others

- Submitted documents shall not be returned to the applicants
- Submission of extra required documents for the applicants who pass the interview
- Inquiry : GS E&C recruiter (tschung@gsenc.com, mkseo@gsenc.com)
※ In case of any trouble when applying online, you could send your CV over to the above email address directly.