

Hanwha Energy Division 2024 Summer Internship

Application deadline :
26th of November, 2023



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Info session & Coffee Chat

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About Hanwaha


Hanwaha continues to grow by quickly anticipating and responding to rapidly changing business environments with a balanced business portfolio that includes aerospace, energy & materials, finance and retail & services. As of 2022, we are the seventh largest business enterprise in South Korea and a Fortune Global 500 company. Our affiliates are becoming global leaders in their arenas by strengthening core competitiveness and securing future growth engines based on sound financial structures.



Total sales of
65.3B
USD



Over
71
Years of history



Globally
710
Networks



Hanwha Profile 2023

2023 Hanwha
Profile
Download PDF (25.2M)

Hanwha's Business Areas

Hanwha is constantly seeking new opportunities on a global scale through which Hanwha can enhance what Hanwha offers to its customers. From China, the Americas and Europe, to emerging markets in Southeast Asia and the Middle East, its goal is to support local operations, embrace the skills of new workforces and bring greater value and prosperity to the world.



Aerospace & Mechatronics

We provide solutions to create sustainable infrastructure on Earth and in space by innovating proprietary aerospace technologies.



Materials

By manufacturing green essential materials, Hanwha is taking the lead in fast-tracking carbon neutrality and promoting sustainable infrastructure that reduces carbon emissions.



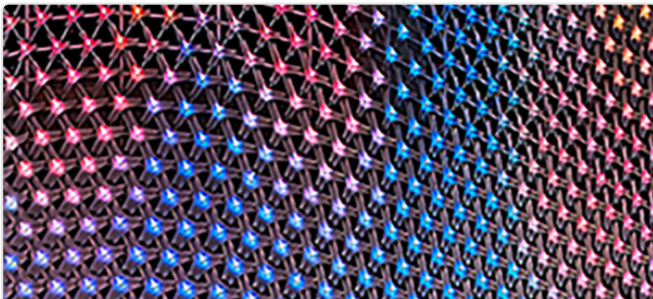
Green Energy

Hanwha's global technology leadership builds an eco-friendly energy ecosystem with hydrogen and wind power as well as a full solar value chain.



Finance

As a leader in the digital innovation of the financial industry, Hanwha aims to generate sustainable prosperity as we help our customers and society grow.



Retail & Services

We offer customers differentiated experiences in E&C and retail & services to enrich leisure and lives, from premium lifestyle department stores, luxury boutique hotels and high-end resorts to

Hanwha Energy Division

Business Overview/Global Base

Business overview

Hanwha Energy pursues development and retails businesses based on diverse technologies, including solar power, ESS, etc.

The company owns overseas corporations at key bases in the global market, such as in the United States, Europe, Australia, Japan, etc. and conducts business as a holding company of Hanwha Convergence and subsidiaries in the chemical companies, including Hanwha Impact and TotalEnergies.

Hanwha Energy

- **Expertise**
Cogeneration, renewable energy development, energy solutions development
- **Founded** 2007
- **Employees** 648
- **Sales/Assets('22)** U\$ 3,042M / 8,934M
- **Global**
United States(Irvine, Houston), Japan(Tokyo) Vietnam(Hanoi), Singapore Spain(Madrid), Australia(Sydney)
- **South Korea**
[HQ] Sejong
[Production Site] Yeosu, Gunsan, Tongyeong

Hanwha Impact

- **Expertise**
Investments in eco-friendly energy, convergent technology, PTA, IPP
- **Founded** 1974
- **Employees** 368
- **Sales/Assets('22)** U\$ 1,594M / 4,226M
- **Global**
United States(San Francisco, Houston, Boston)
- **South Korea**
[HQ] Seoul
[Production Site] Ulsan, Daesan

Hanwha TotalEnergies

- **Expertise**
Ethylene, Propylene, Butadiene, EO, EG, SM, PX, PE, EVA, PP, Gasoline, Diesel, Jet Fuel, LPG, Solvents
- **Founded** 1988
- **Employees** 1,840
- **Sales/Assets('22)** U\$ 10,837M / 5,942M
- **Global**
China(Beijing, Hong Kong, Shenzhen, Dongguan, Shanghai), Japan(Tokyo) Singapore, Germany(Frankfurt)

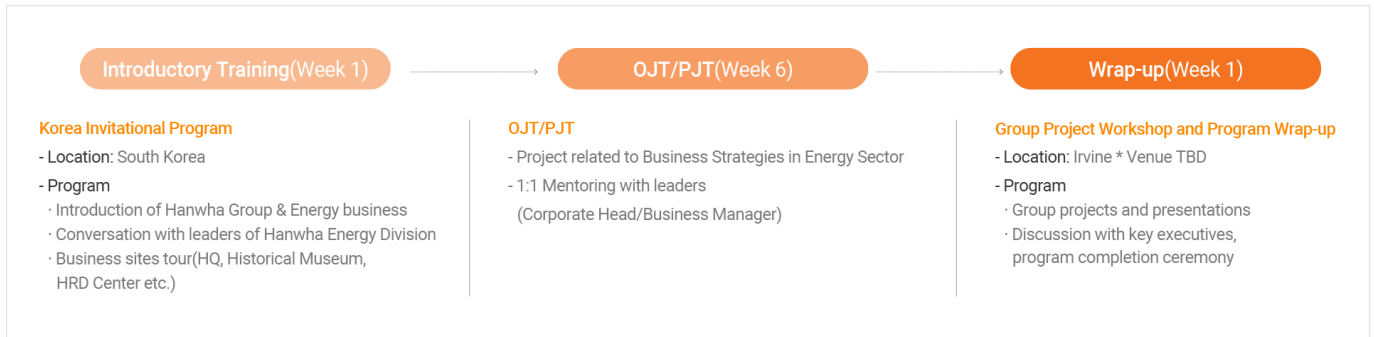
Hanwha Power Systems

- **Expertise**
Industrial compressors, power generation
- **Founded** 1977
- **Employees** 1,167
- **Sales/Assets('22)** U\$ 500M / 1,341M
- **Global**
United States(Houston, Jupiter), Netherlands(Rheden), China(Shanghai)



Hanwha Energy Division 2024 Summer Internship

- **Period:** 17th of June ~ 9th of August, 2024(8 weeks)
- **Workplace:** USA(Houston, Irvine, Jupiter), South Korea(Seoul, Pangyo)



Detailed Recruitment Fields

| Company | Position | Intern | Workplace |
|---------------|--|----------------------------|--------------|
| Hanwha Energy | HEUH (United States)/ Business Development | PV/ESS Development(174PG)- | Irvine / USA |

| | | | |
|----------------------|--|---|----------------------|
| | | New Retail Business(DI/DE, EV, C&I & Residential, VPP, Load forecast) | Houston / USA |
| Hanwha TotalEnergies | Research Institute/ Research and Development | R&D/Business Planning | Seoul / South Korea |
| | Manufacturing Engineering | Manufacturing Engineering | Jupiter / USA |
| Hanwha Power Systems | Research and Development | Power Solution Development | Pangyo / South Korea |
| | | Rotor System Development | |

Recruitment Process

Schedule ※ Based on the United States local date



Job Description

Hanwha Energy

PV/ESS Development(Irvine, USA) - Downstream Planning

- Work with Senior Management to identify and prioritize target greenfield sites and acquisition targets for renewable energy opportunities by leading customer-focused, data-driven, multi-dimensional analysis incorporating input from cross-functional team members;
- Support interconnection process, land acquisitions, project permitting, and applications;
- Coordinate real estate/land acquisition team on target greenfield sites;
- Supporting to deliver development projects on time and on budget;
- Coordinate the broader development team in achieving project objectives;
- Assisting to track project risk throughout the development cycle; supporting to provide risk assessments and mitigations to Senior Management;
- Supporting to develop proposal strategies, RFP processes or similar, and negotiate terms for vendors and consultants who participate in the development process;
- Maintain and provide suggestions for project development tracking and reporting;
- All other duties as assigned by Senior Management.

New Retail Business(Houston, USA) - DI/DE, EV, C&I & Residential, VPP, Load forecast

- Assists in the execution of procurement solicitations for new and innovative product offerings.
- Supports the negotiation contract terms for energy and capacity products from renewable, energy storage and distributed energy resources.
- Drafts strategy papers and presentations, drafts testimony, and supports requests
- Builds and manages relationships with new and existing entities in the market area of focus.
- Develops models, tools, regulatory filings, and forecasting materials to support commercial procurement activities.
- Prepares strategy papers and presentations, testimony, and supports requests from internal and external parties, including the Public Utilities Commission and other regulatory agencies.
- Participates in identification, development, implementation, and resolution of issues associated with complex, cross-functional strategy and policy matters.

- on manufactured products, processes, and catalysts
- Planning business and strategy based on knowledge of manufacturing plant processes and products
- Management improvement, innovation, and strategic management to increase corporate future value
- Recommend Go-To-Market decisions through a thorough business planning approach (research and analysis on market economics, competitive data)

Hanwha Power Systems

Manufacturing Engineering(Jupiter, USA)

- Learn about our products and the critical features to performance in the engine
- Learn the manufacturing processes for new make and reconditioning of hardware in our shop
 - 3,4 & 5 axis machining, grinding, vertical lathe, media blasting, laser cladding, manual welding TIG/MIG, EDM, brazing, HVOF/APS coating, heat treat, FPI, X-ray, UT inspection, airflow and moment weigh, metallurgical analysis, blue light scanning, CMM
- Create and improve the documentation for our manufacturing processes
 - : Work Instructions / Routers / Critical Feature Checklists / Inspection and Test Plans / Assembly Instructions
- Create and improve fixturing and tooling
- Learn our software: SAP, Creo, and Teamcenter
- Root cause and corrective actions for non-conformances

Power Solution Development(Pangyo, South Korea)

- Conduct detailed design and analysis of sCO₂ power cycle or other power generation system such as Gas turbine, Steam turbine, and etc
- Collaborate with cross-functional teams to ensure seamless integration of sCO₂ technology into power generation systems
- Perform dynamic simulations and validation by using experiment data and design results
- Drive innovation and efficiency in the design process to enhance system performance and reliability

Rotor System Development(Pangyo, South Korea)

- Basic and detailed design of magnetic bearing for centrifugal turbo compressor and expander
- Developing magnetic bearing control logic & simulator by using MATLAB or equivalent software
- Rotordynamic analysis by using commercial software
- Support application engineering team with technical review

Coffee Chat / Info Session Schedule

