

AI-Driven Hydrogen Technology Innovation Center

Goals & Expected Impact	<p>“Commercialise AI-based green-hydrogen processes that can replace 50 % of current grey-hydrogen production and open a KRW 200 trillion annual market.”</p> <ul style="list-style-type: none">· Train elite PhDs to secure Korea’s global hydrogen hegemony.· Upgrade traditional thermochemical hydrogen production to carbon-neutral, sustainable clean-hydrogen technologies. <p>(Core technologies) inorganic-material SDL, organic-material SDL, hydrogen-specific digital-twin across process stages, generative-AI-based autonomous process design, hydrogen-operation DBs.</p>	
	Recruitment	Leverage the PhD-talent pool to hire best-in-class energy-chemistry researchers.
Outstanding Post-doctoral Training Strategy	Development	<ul style="list-style-type: none">· Implement a multi-mentoring system (AI / S&T / global scholars);· Support short-term overseas placements for joint research with leading institutes;· Enhance capabilities through innoMate grouping for peer collaboration.
	Domestic	<ul style="list-style-type: none">· POSCO Holdings, LG Chem, Korea Zinc, UGPS, SK Hynix, etc.· POSTECH, Seoul National Univ.· KRICT, KITECH, KAERI, etc.
Partner Organisations	Overseas	<ul style="list-style-type: none">· Merck, Aramco· Stanford, EPFL, Imperial CollegeLondon, MIT, Yale, etc.· NREL, Forschungszentrum Julich GmbH, CSIRO, MPI-Halle, etc.

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