

Platform for Real-world Innovation  
in Smart Manufacturing and AI (PRISM-AI)

Goals & Expected Impact	<p>“Driving industrial innovation by building an intelligent, full-cycle AI manufacturing platform.”</p> <ul style="list-style-type: none"><li>· Nurture <b>global AI-convergence talent to spearhead digital transformation in manufacturing.</b></li><li>· <b>Develop core technologies that enable AI transformation across the entire manufacturing cycle</b> (design → materials → manufacturing → operation) to <b>realise high-reliability, low-cost, high-efficiency product development and production.</b></li></ul> <p>(Core technologies) manufacturing-specialised intelligent LLMs; material-discovery &amp; product-design AI; process-optimisation &amp; predictive-maintenance AI; user-friendly AI manufacturing interfaces.</p>	
Outstanding Post-doctoral Training Strategy	Recruitment	PhDs with either AI expertise (LLMs, optimization, digital twins) or solid domain knowledge in materials, design, manufacturing, or PHM. Motivation to integrate AI with domain research is essential.
	Development	<ul style="list-style-type: none"><li>· <b>Provide multi-mentoring through industry-academia-research and overseas linkages;</b></li><li>· Offer dedicated space plus GPU &amp; experimental infrastructure;</li><li>· Operate <b>a leadership-growth programme to cultivate next-generation Manufacturing-AI leaders.</b></li></ul>
Partner Organisations	Domestic	<ul style="list-style-type: none"><li>· LG Electronics, HD Hyundai Heavy Ind., Samsung Heavy Ind., Hyundai Motor, Kumho Tire, EnableFusion, MakinaRocks, OnePredict, Narnia Labs, Tweeny, etc.</li><li>· KAIST, UNIST, GIST, DGIST, Seoul National Univ., Korea Univ., Hanyang Univ., Dongguk Univ.</li><li>· KIMM, KITECH, KIMS, etc.</li></ul>
	Overseas	<ul style="list-style-type: none"><li>· (Academia) MIT, UC Berkeley, UMD, DTU</li></ul>

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