

AI-CRED Institute (AI Co-Research & Education for innovative Drug Institute)

Goals & Expected Impact	<p>"Harnessing AI-driven new modalities to tackle five major diseases and accelerate innovation across the drug development lifecycle."</p> <ul style="list-style-type: none">· Development core AI technologies for end-to-end drug design, delivery, and mechanism elucidation.· Train "ambidextrous" co-researchers with dual expertise in AI and drug discovery.· Targeted disease areas : Cancer, Neurodegenerative Disease/Aging, Immune Disease, Metabolic Disease, Infectious Disease, <p>(Core technologies) AI-based drug design; de novo therapeutic modality development; long-acting and organ-specific drug delivery systems; lab-in-the-loop automation platform; Bio-data integration and multimodal AI model development; AI virtual cells.</p>	
Outstanding Post-doctoral Training Strategy	Recruitment	<ul style="list-style-type: none">· Operate BioAIST, ChemaIST, MediAIST, DataAIST, EnginAIST interdisciplinary talent tracks.· Attract top-tier domestic & international postdocs through multi-disciplinary proposal reviews.
	Development	<ul style="list-style-type: none">· Support creative and independent research through the AI-CRED Fellowship (includes Salary + Dedicated research funing)· Provide structured, multi-disciplinary mentoring (≥2 advisors).· Promote collaboration through shared infrastructure and global research networks.· Provide faculty-track opportunities to top-performing Fellows within the AI-CRED network
Partner Organisations	Domestic	<ul style="list-style-type: none">· Bio-venture company; HITS, SOBAGEN, Billix, Thor Therapeutics, RiboTech, etc.· KAIST(lead), GIST, DGIST, UNIST· KIST, KISTI, KRIBB, KRICT, etc.
	Overseas	<ul style="list-style-type: none">· Global AI drug-development firms (MoUs in progress)· Max Planck Institute (MPI)

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