

IT · 에너지화학공학 심화 프로그램

Research & Education specialty



Solar Cell	Fuel Cell	Wearable/Smart IT
Materials	Materials	Materials
Processing	Processing	Processing
Devices		Devices

IT : Information Technology
IT·에너지 : IT based Energy Technology

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Vision

신재생에너지
(태양전지, 연료전지)

에너지저장시스템
(이차전지)

Green IT
(반도체, 디스플레이)



Human resources for

기후변화 대응, 지속가능 Ubiquitous World

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Si solar cell

- Poly-Si & Si ingot & wafer process

Inorganic thin film solar cell

- CIGS, CZTS, SnS...

Organic hybrid solar cell

- DSSC, polymer, organic, electrochemical

Next generation solar cell

- Quantum dot, bulk-heterojunction

Fuel cell

- Nano Material, Membrane, Catalyst, Photoelectrochemical water-splitting cell for H₂ fuel

Next generation storage

- Solid Electrolyte, Thin Film Battery, Hybrid supercapacitor

Wearable & Smart IT

- Flexible substrate, OLED, Quantum dot, smart window

Semiconductor

- Solid state electronics, Electronic material processing, Phase change memory materials

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취업분야

Semiconductor industry

- 삼성전자, SK하이닉스, 주성엔지니어링, OCI 머티리얼즈, AMK

Solar cell & Battery industry

- OCI, LG전자, 한화큐셀, E&R Solar, SK이노베이션, LG화학

Display & IT

- LG디스플레이, 삼성SDI, 희성전자, L&F, 프로템, LG이노텍