

오세용

오세용은 한양대학교 [ERICA캠퍼스 전자공학부 조교수](#)다.

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학력

2015. 성균관대학교 학사

2021. 성균관대학교 박사

경력

2021-2023. 노스웨스턴대학교 박사후 연구원

2023- 한양대학교 ERICA캠퍼스 전자공학부 조교수

수상

- 2022 **Samsung Best Paper Award, the 1st Prize** Samsung Electronics
- 2021 **Superior Research Award: Ph.D. the 1st Prize** Sungkyunkwan University
- 2021 **Lee Sukhan Information-Intelligence Research Best Award** Sungkyunkwan University
- 2017-2021 **Global Ph.D. Fellowship** National Research Foundation of Korea
- 2012-2013 **The National Scholarship for Science and Engineering** (Full tuition) The Korea Student Aid Foundation

관심연구분야

- Materials (Next-generation semiconductors)

- 2D vdW layered materials: graphene, TMDs, *h*-BN, black phosphorus
 - Oxide semiconductor: IGZO, SIZO
 - Other materials: CNT, carbon black, graphene nanopowder
- Applications (Bio-inspired electronics & Flexible bioelectronics)
 - Neuromorphic devices and circuits: electronic/optoelectronic synaptic devices, CMOS neuron circuits for spiking neural networks (SNNs)
 - Memory applications: DRAM, Flash memory
 - Flexible electronics: 3D bioelectronics and flexible semiconductor devices
 - Skin-interfaced sensors: biosignal sensors, optic sensors, strain sensors
- Systems (AI-integrated closed-loop systems)
 - Hardware neural network systems: STDP synapse/LIF neuron integrated SNNs
 - Smart healthcare systems: AI-embedded sensory/neuromorphic systems

교내 매체

- <뉴스H> 2025.05.20 [오세용 교수, 실시간 모유 섭취량 측정 무선 웨어러블 센서 개발](#)