

MCK Tech. Co., Ltd.

Category	Enterprise Creation
○ Corporation (Preliminary Enterprise)	MCK Tech. Co., Ltd.
○ Representative	Seungmin Cho
○ Establishment year	2017.02.20
○ Specialized Field	Graphene sensor-based electrolyte concentration detection system for home-care of ascites patients
○ Address	8-309, 156, Gajeongbuk-ro, Yuseong-gu, Daejeon, Republic of Korea
○ Home page	- Homepage: http://www.mcktech.co.kr
○ Enterprise Brief Introduction	<ul style="list-style-type: none"> - Established a company to develop sensor application technology that can create high added value by utilizing experience in developing graphene materials and parts. - Currently developing a sensor that detects the concentration of sodium ions in urine for home-care of ascites patients. And a joint research is underway to apply sensors to medical devices under development by a medical device company in Singapore. - Aiming to develop a system for home-care of ascites patients through mass production and clinical evaluation of the developed sensor.
○ Product and Pipeline Introduction	<ul style="list-style-type: none"> - In-body electrolyte monitoring system using graphene-based high-sensitivity ion detection sensor - Developed graphene-based Na⁺ ion detection sensor and performance evaluation completed. - Development of portable diagnostic device for home-care and performance evaluation in progress. - Expanding the line of sensors for measuring other electrolytes and detectables for disease diagnosis (K⁺, Cl⁻, creatinine sensors are being developed to improve diagnostic reliability).
○ Patent and Certification, Licensing, Thesis, Investment status, etc.	<ul style="list-style-type: none"> - 5 domestic and international patents for miniaturization and mass production of graphene sensors (3 domestic and 2 international) - Published 1 paper on graphene sensor - “Two-Dimensional Disposable Graphene Sensor to Detect Na⁺ Ions.” <i>Nanomaterials</i> 11.3 (2021): 787.) - Investment attraction contract on April 15, 2019 (40,050 thousand won)