



# ROBERT E. FISCHELL INSTITUTE FOR BIOMEDICAL DEVICES

Since 2019, the **Robert E. Fischell Institute for Biomedical Devices** has advanced public health by boosting translational biomedical device breakthroughs and increasing the number of those products that make it to market. The Fischell Institute is an initiative of the A. James Clark School of Engineering at the University of Maryland, College Park, with an additional location at the University of Maryland, Baltimore, though its work spans the University System of Maryland, the State of Maryland, and beyond.



## Advancing Human Health Through Biomedical Device Research and Commercialization Since 2019

### Research

The Fischell Institute supports innovative research and its translation into commercial success by immersing creative and energetic scientists and engineers in a nurturing and rewarding research environment where biomedical devices are conceived of and investigated.

### Commercialization

The institute leverages staff, resources, facilities, and a network of experts to facilitate the prototyping, testing, and manufacturing of biomedical devices, along with the creation of ventures and intellectual property, and product passage through various clinical, regulatory, and reimbursement hurdles.

### FACULTY

**46**

There are 46 faculty affiliated with the Fischell Institute. The institute offers multi-level research opportunities, including a graduate-level fellowship.

### YOUNG INVESTIGATOR FELLOWSHIP PROGRAM

Designed to bolster young, postdoctoral researchers by pairing them with existing, proven research teams, the Young Investigator Fellowship program aims to propel the careers of awardees, enabling them to apply for additional grants or faculty positions.



The program provides funding for collaborative, dynamic teams of multidisciplinary research groups, from across departments, colleges, and universities, that strategically leverage the use of additional personnel to empower high-impact, translational, and exploratory biomedical device research.

The institute awarded its first round of Young Investigator Fellowships in 2021, worth \$150,000. Since then, awardees have garnered \$4.8 million in follow-up grants.

### PARTNERSHIPS



National Institutes of Health





**ROBERT E. FISHELL INSTITUTE**  
FOR BIOMEDICAL DEVICES

**Fischell Foundry: the Institute’s Arm for Providing Services to Device Inventors and Companies**

The Fischell Foundry is the driving force behind the Fischell Institute’s mission to support biomedical device innovators throughout the entire commercialization pipeline. In-house experts assist inventors and companies with the services below.

<p><b>DESIGN, VALIDATION, AND VERIFICATION</b></p>	<p><b>DEVICE PROTOTYPING</b></p>	<p><b>DEVICE PROTOTYPE VALIDATION AND VERIFICATION</b></p>	<p><b>DATA/DEVICE DEVELOPMENT PLAN</b></p>
<p><b>REGULATORY PATHWAY ASSESSMENT</b></p>	<p><b>CONNECTIONS WITH TESTING FACILITIES AND CROs</b></p>	<p><b>FDA SUBMISSION SUPPORT</b></p>	<p><b>CLINICAL TRIAL DESIGN</b></p>
<p><b>INTELLECTUAL PROPERTY AND VENTURE CREATION</b></p>	<p><b>U.S. MARKET ENTRY FOR INTERNATIONAL COMPANIES</b></p>	<p>Device development assistance includes prototyping, printed circuit board (PCB) construction, fabrication, 3D printing, optical/electrical sensor design, confocal microscopy, small animal imaging, technology validation testing, and many other analytical technologies.</p>	

**INTERNATIONAL COMPANIES ENTERING THE U.S. MARKETPLACE**

The Robert E. Fischell Institute for Biomedical Devices assists companies in finding a landing space in the U.S., helping them to identify markets, and then access them through regulatory pathways. The institute has a proven track record of guiding international companies through the regulatory process.

