

**Post-Doc in Bioengineering/Biotechnology  
West China Hospital of Sichuan University**

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Posted Sep. 17, 2024, set to expire Jan. 17, 2025

<b>Job Title</b>	Post-Doc in Bioengineering/Biotechnology
<b>Department</b>	Precision Medicine
<b>Institution</b>	West China Hospital of Sichuan University Chengdu, Sichuan, China
<b>Date Posted</b>	Sep. 17, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Bioengineering (all Bio-related fields) Engineering - Other
<b>Apply By Email</b>	
<b>Job Description</b>	

**Precision Medicine Translational Research Center and National Organ-on-a-chip Platform  
Postdoctoral Researcher Opening**

West China Hospital is ranked the #1 research hospital in China. The National Precision Medicine Industry Innovation Center is led by West China Hospital of Sichuan University and has been jointly established by several departments nationwide. We will strive to become a national center for precision medicine innovation to gather talents around the world. Based on the West China Hospital Precision Medicine Translation Research Center and the National Precision Medicine Industry Innovation Center, the Organoid on Chip Platform, the company is committed to the research on the integration of medical and industrial fields.

Introduction to West China Hospital can be found: <https://www.wchscu.cn/details/50453.html>

Postdoctoral fellow Position qualifications: Applicants of any nationality must be under 35 years old.

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Applicants must have a degree in bioengineering, biomaterials, medicine, biology, pharmacy, or biotechnology. Open to PhD students, PhD, Post-Doc and residents.

Remuneration: above RMB 400,000 annually

### **Specific area of interest includes but not limited to:**

**Microfluidics:** 1. Responsible for microfluidic biochip product design, manufacturing and processing, packaging technology development; 2. Responsible for the design, development and verification of microfluidic organ chips. 3. Responsible for the development of microfluidic chip mass production technology, production equipment and manufacturing process; 4. Participate in the development of organ-chip and organ-like products and technology platforms based on microfluidic chips.

**Biosensors:** 1. Design, simulate, and optimize sensor solutions. 2. Responsible for the technical solution and implementation of sensor project. 3. Be responsible for system commissioning and verification of sensor projects. 4. The sensor is integrated into the microfluidic system to realize real-time monitoring.

**Organoids:** 1. Responsible for the construction and preparation of organoids; 2. Responsible for organoid cell type culture, identification and testing; 3. Carry out organoid culture standard procedure, equipment, reagent preparation and other related work; 4. Organ printing.

**Organ-on-chip:** 1. Responsible for the R & D of stem cell-based organ on chips, including chip design, structure optimization, performance evaluation and testing. 2. Responsible for developing the experimental plan of organ microarray cell culture and verifying the function. 3. Develop and optimize the process and reagents for the culture and drug sensitivity testing platform.

**Intelligent biomedical devices:** 1. Design and develop cell intelligent analysis equipment, integrated in microfluidic chip; 2. ICs, microelectrodes, microsensors monitor cell and organoid growth in real time; 3. Intelligent drug sensitivity testing and system control; 4. Intelligent cell and organoid sorting.

**AI/machine learning:** 1. Design and develop artificial intelligence algorithm based on biomedical images and multiple data; 2. The machine learning algorithm was applied to real-time monitoring of cell and organoid growth and drug susceptibility testing. 3. Machine learning algorithms are applied to micro and nano processing, medical device control, wearable device data processing, cell sorting, etc.

**Interested applicants should send CV to:** [organchip@126.com](mailto:organchip@126.com)

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**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact**

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