



# Precision Medicine and Magnetic Resonance Lab

## Southeast University

### About PMMR

**Precision Medicine and Magnetic Resonance Lab (PMMR)** at Southeast University (China) has been committed to the combination of medicine and engineering for the research in lightweight and detection limits of magnetic resonance (MR) systems, exploring medical multimodal MR fusion technology, and achieving the integration of multimodal MR systems for diagnosis and interventional treatment.

**PMMR Lab** is responsible for multiple national scientific research projects in MR, including the National Key Scientific Instrument and Equipment Development Project, the Major Research Plan, and the State Key Program of the National Natural Science Foundation of China. The academic leader of our lab is Prof. Dr. Yi Hong. The core team consists of the chief scientists of National Project 973, the recipients of the National Science Fund for Outstanding Youth Scholars, the leading talents of the National "Ten Thousand Talents Plan", talents of the New Century honored by the Ministry of Education of China, etc.

**PMMR Lab** relies on

- Jiangsu Key Laboratory for Design and Manufacture of Micro-Nano Biomedical Instruments, Nanjing, China (**Director: Prof. Dr. Yi Hong**)
- National Medical Research of Industry-Education Integration Innovation Platform for Interventional Medical Engineering, Nanjing, China (**Director: Academician Teng Gaojun**)
- School of Mechanical Engineering, Southeast University, Nanjing, China (**China's "Double-First Class" discipline**)
- Zhongda Hospital Southeast University, Nanjing, China

**PMMR Lab** has been well-resourced with facilities including

- 500 m<sup>2</sup> shielding room
- 100 m<sup>2</sup> super-clean laboratory
- 200 m<sup>2</sup> research& development laboratory for magnets, RF coils, gradient coils, etc.
- 0.5 T open interventional MRI system with optical navigation system
- 3 T MRI system

- 5 T MRI system (being prepared)
- 7 T animal MRI system
- A variety of magnets and multi-channel commercial spectrometers for MR

The main research interests of **PMMR Lab** are as follows.

- MR hardware development and system integration
- Pulse sequence development and data processing
- Interventional MRI
- Applications of magnetic resonance in medicine
- MR-compatible equipment
- Other research related to MR

**Southeast University is making great efforts to develop a large medical department featuring the intersection of medicine and engineering. The university is the first to establish the Department of Medical Equipment, building a global high-end medical imaging technology and talent innovation center. Now we sincerely invite magnetic resonance talents at home and abroad to join us!**

### **Support policies for outstanding overseas young talents**

- An annual salary will be no less than 0.65 million CNY
- Total living allowance (tax-free) of 0.5 million CNY
- Scientific Research Funds of 2 million~5 million CNY
- Total housing subsidy of 3 million CNY
- Total family allowance of 0.1 million CNY
- Green channels for full professor
- Two doctoral students are allowed to enroll each year
- Support will be provided for the application of other talent programs

### **Contact**

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