**复旦大学类脑研究院全球招聘博士后**

**Postdoc positions at the Institute of Science and Technology for Brain-inspired Intelligence of Fudan University in Neural Engineering and Digital Health.**

**Research Areas:**

**Research Area I. Neuromodulation**

Research fields include the mechanisms, technology and clinical translational research in closed-loop neuromodulation, intelligent brain-computer interface, neural decoding and neural stimulation.

* Neural signal processing and modelling, and neurophysiological mechanisms of brain diseases and neuromodulation
* Research on mechanism and algorithm of closed-loop neural modulation
* Development of neural stimulator and closed-loop neural stimulation system
* Intelligent and real-time modulation techniques based on reinforcement learning or other machine learning algorithms

**Research Area 2. Digital Healthcare**

Research fields include digital therapeutics, remote healthcare, wireless wearable devices and digital cognitive behavioral therapy for sleep disorder, childhood emotional disorders, Parkinson’s disease, etc.

* Research on multi-dimensional mechanism of brain disorders
* Wireless wearable monitoring and quantitative evaluation
* Big data analysis
* Human-machine interaction
* Neural rehabilitation
* Digital cognitive behavioral therapy
* Relative software and hardware system development

**Neural and Intelligence Engineering Center, Fudan University**

Fudan University is one of the top five universities in China ranked as top 60th worldwide in Times Higher Education World University Ranking.

ISTBI is a leading institute in brain-inspired artificial intelligence, neuroimaging, biomedical big data and neural engineering. The Neural and Intelligence Engineering Center conducts interdisciplinary research among intelligent neural engineering, neurophysiology, clinical neuroscience and digital health.

More information can be found from <https://www.fudan.edu.cn/en/> and <https://istbi.fudan.edu.cn/lnen/>.

‍

**Qualifications:**

* Capable of conducting high-quality independent research and have teamwork spirit.
* Research experience in one of the above projects. Research background in neural engineering, neuromodulation, neural signal processing, machine learning, biomedical engineering or electronics, data analysis, neurophysiology in movement disorders, pain, depression, or sleep disorders, psychology, cognitive neuroscience and relevant fields.
* Under 35 years old and graduated no more than 3 years.
* Published 1-2 academic articles in international journals in recent 5 years.

‍

**Employment Benefits：**

* Internationally competitive salary. Provide university accommodation and commercial insurance according to university policies.
* Relevant research and technological platforms to support application for various projects grants and funds.
* A pleasant working environment that provides top-class research facilities and opportunities for career development.
* Support overseas academic visiting for outstanding postdocs.
* Postdoctoral researchers with excellent in-job performance would be recommended to university employment.‍

**Application Procedure：**

* A cover letter introducing your academic and work experiences, qualifications and research interests.
* CV summarizing your background of education, academic and industrial work experience and publications.
* Send your CV and cover letter to shouyan@fudan.edu.cn and niec­\_istbi@fudan.edu.cn with a subject as Post-doc Application.