Since the first Deep Brain Stimulation initiative of Tsinghua University in 2000, PINS Medical has gradually established a multinational corporation with headquarters based in Beijing and international business centers in Singapore. As an innovative high-tech enterprise with a focus on neuromodulation, a variety of clinical products have been developed to date, which include stimulators for deep brain, vagus nerve, spinal cord and sacral nerve stimulation therapies. PINS Medical devotes itself to providing cutting-edge treatments for patients who suffer from neurological disorders such as Parkinson’s Disease, Epilepsy, Chronic Pain and OAB, etc.

As part of the “National Engineering Laboratory for Neuromodulation”, PINS Medical works in close cooperation with Tsinghua University and the numerous affiliated clinical centers, becoming a center of attraction for a wide range of professional talents in areas of clinical research, innovative R&D and business management. Since 2008, PINS Medical has developed rapidly in becoming a leading brand in neuromodulation within the Chinese market, due to the success of its creative research platform that efficiently links basic research, R&D of novel products, clinical testing and market entry.

With an outstanding reputation as a high-tech healthcare corporation, PINS Medical has a primary mission for providing innovative, high-quality products and services for patients to improve quality of life. PINS, which stands for Programmable Implanted Neuromodulation Stimulator, is also an abbreviation of “Patient Is No.1 always”. This clearly presents the goal of PINS Medical for “restoring hope”, not simply as an innovation company but also across society to citizens.

Looking into the future with the continuous rise in incidence of neuropsychiatric disorders and increased social burden across the globe, PINS Medical along with local governments, research centers, companies and top academic scientists, are now developing and promoting innovative therapies worldwide.

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Inception Institute of Artificial Intelligence:

A Bold Initiative to Foster Global AI Research and Innovation

The Inception Institute of Artificial Intelligence (IIAI), headquartered in Abu Dhabi, the capital of the United Arab Emirates, is an international research organization dedicated to achieving breakthroughs in fundamental and applied AI. IIAI consists of an elite team of handpicked scientists and engineers, led in their dedication to excellence by Oxford University trained CEO and Chief Scientist Dr. Ling Shao, the former Chair Professor of Computer Vision and Machine Learning at the United Kingdom’s University of East Anglia.

Since its establishment earlier this year, IIAI has attracted over 60 members from leading universities and research organizations, including Oxford, MIT, ETH Zurich, Tsinghua University, Peking University, the Australian National University, the National University of Singapore, and New York University. IIAI continues to expand quickly, with plans to onboard hundreds of researchers and engineers in the near future. In addition to our full-time team, IIAI will also accept a large number of graduate student interns from world-renowned universities.

Artificial Intelligence: At the Heart of a Happier, Healthier, and More Productive Global Community

At IIAI, we believe AI is essential to tackling some of humanity’s most challenging and pressing problems. To help our society reach its full potential, IIAI is leading fundamental and applied research across numerous domains, pushing the boundaries of AI capabilities. In fundamental research, we focus primarily on machine learning, with a particular emphasis on deep learning. Within this domain, we are developing more efficient and intelligent learning models, including unsupervised or self-supervised learning, few-shot or zero-shot learning, and lifelong learning.

Because we believe in the profoundly positive impact AI can have on society, IIAI is also investing extensively in applied research, with the aim of fundamentally transforming the use of AI across domains. IIAI’s current applied AI research is focused on two primary areas: smart cities and healthcare. For instance, to accelerate the evolution of smart cities, we are developing a world-class, intelligent video-analytics platform powered by thousands of computing clusters to revolutionize object re-identification and activity recognition. In the healthcare sector, we are leveraging medical imaging and electronic health records to optimize the early detection, diagnosis, and targeted treatment of ailments, including diabetic retinopathy, a complication of the type 1 or type 2 diabetes prevalent across the Middle East, and breast cancer, which is most commonly detected by digital mammography.

From Big Data to Cloud Computing, IIAI’s Resources Keep it at the Forefront of Research and Innovation

To support its research, IIAI leverages powerful computing resources, including massive parallel-processing clusters with hundreds of NVIDIA DGX-class GPU
servers, HPC resources consisting of thousands of CPU nodes, and petabytes of SSD-based data storage. In addition to these physical resources, IIAI also works with a wealth of big data from various domains, from text to audio, still images to full-motion video. The combination of our technological power and substantial data assets is instrumental in supporting not only the AI research being conducted, but also accelerating its application to multiple, wide-ranging fields and industries.

IIAI is rapidly making an impact on both the national and global levels, publishing numerous papers in top journals and at international conferences. Notably, four articles have been presented at this year’s IEEE Conference on Computer Vision and Pattern Recognition (CVPR2018), over ten articles were presented at the 2018 European Conference of Computer Vision (ECCV2018), and two articles have been published in IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI). Furthermore, in order to promote the development of fundamental research in AI, IIAI has sponsored several international conferences, including ECCV, the International Conference on Machine Learning (ICML), and the Conference on Neural Information Processing Systems (NIPS).

To support its mission of expanding AI research across disciplines, IIAI is forming long-term strategic partnerships with numerous internationally renowned universities and organizations. This enables important academic research and knowledge to be combined with the experience and extensive domain expertise particular to industry, establishing the foundations for the future of AI, while at the same time promoting AI in the region – and beyond. Thus far, IIAI has initiated the establishment of joint laboratories with the University of Edinburgh, the University of Amsterdam, and New York University Abu Dhabi. These collaborations include joint doctoral programs, exchanged researcher visits, as well as joint research and development. In addition to academic collaborations, IIAI also maintains a close relationship with various research institutions globally, from Europe to Asia.

Research within these collaborations is based on a broad spectrum of data resources, with the aim of promoting the rapid development of AI and data science for practical applications in a variety of fields.

**Join IIAI and Be Part of a One-of-a-Kind Institute in a Visionary and Dynamic Nation**

The IIAI office is located in an international financial center, the Abu Dhabi Global Market, which is surrounded by a wide range of businesses and entertainment facilities, as well as beautiful beaches and endless sunshine. In addition, IIAI’s strategically central location at the intersection of the East and West offers the unique opportunity to work in a highly international community, which brings together a variety of perspectives and backgrounds while creating a diverse and open culture that is warm and welcoming to those from all backgrounds and nationalities.

IIAI is currently recruiting a select group of expert researchers and engineers highly specialized in the fields of deep learning, computer vision, natural language processing, and medical image analysis. Well-qualified researchers and engineers who are passionate about AI, driven towards excellence, and have a spirit for adventure are encouraged to contact IIAI.

**Job portal:**  
https://www.jobs.ac.uk/enhanced/linking/inception-institute-of-artificial-intelligence/

**IIAI website:** http://www.inceptioniai.org/

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