



ZHONGSHAN HOSPITAL, FUDAN UNIVERSITY

No. 180 Fenglin Road, Shanghai 200032, China
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Notice

Application and Analysis of 3D Printing Technology in the Medical Field

3D printing technology has been rated as "the top ten technologies that will change the world in the future". In the late 1980s, 3D printing technology has been introduced into the medical industry in China, mainly to help doctors build three-dimensional lesion models for preoperative planning and communication with patients. With the popularity of 3D printing technology in clinical applications, it will provide doctors with more efficient means of diagnosis and treatment, reducing the pain of patients while reducing the risk of treatment.

At the same time, the vigorous development of medical 3D printing industry will also drive technological innovation in multiple fields, such as equipment development, application materials, data software, medical services, and so on, forming a new format of industrial transformation and upgrading, which has wide clinical application foreground and socio-economic significance.

Under the strategic plan of "One Belt, One Road", the first training course "Application and Analysis of 3D Printing Technology in the Medical Field" will be held in Shanghai in October 2019. This training will build a cooperation platform for national medical 3D printing technology research along the Silk Road in China, and actively promote the international cooperation of Silk Road countries.

The followings are the relevant information:

Contents:

3D printing teaching research and application examples in the medical field, including orthopedics, brain surgery, cardiac surgery, stomatology, etc.

Activities:

Mainly lecture-based, with selected practical lab operation, institution and enterprise visiting, etc.

Language:

English (or Chinese with English-interpreter).



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Participants:

Clinicians, researchers of scientific research institutes and professionals of higher education in Southeast Asian countries, etc., **who meet the following requirements:**

- 45 or under;
- Declaration of medical condition in normal;
- Bachelor degree or above, medium language in English or Chinese is accepted;
- Person who obtained Foreigner's Work Permit in China is not within the scope of application.

Date:

October 18 - November 1, 2019 (Beijing time)

Location:

Shanghai, China

Organizer:

International Cooperation Dept., MOST, China.

Supervisor:

Shanghai Science and Technology Committee

Host:

Zhongshan Hospital

Zhongshan Hospital possesses a wide range of specialties with strong comprehensive strength. Diagnosis and treatment of heart diseases, liver cancer, kidney and lung diseases are the main and featured services of Zhongshan Hospital, taking the lead in the particular fields at home.

Zhongshan Hospital has rich experience in the application of medical 3D printing. As early as 2015, 3D printing technology was successfully used to perform a transcatheter aortic valve replacement surgery for a 77-year-old patient. 3D printing technology was used to guide complex cardiac surgery such as Kommerell diverticulum, complex coronary artery malformations, atrial septal defect and left atrial appendage occlusion.

Cooperators

- Institutes of Biomedical Sciences Fudan University

As the leading unit, Institutes of Biomedical Sciences Fudan University undertakes and concludes a number of biomedical technology and instrument research and development projects, and has rich experience in biomedical engineering and technology research and development.



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- Shanghai Ninth People' s Hospital

Shanghai Ninth People' s Hospital is the first hospital to introduce computer-aided and integrated manufacturing systems including 3D printing technology into clinical applications in China.

- Image Medraw Technology Co., Ltd.

Image Medraw Technology Co., Ltd. is a high-tech company focusing on digital medicine and personalized medical devices. The team develops specialized surgical system on the basis of existing technical reserves, provides solutions for preoperative planning of existing surgical techniques, and produces individualized instruments to assist the surgery.

Expenses:

CAIQ will sponsor the tuition, accommodation and personal accident insurance during training days in Shanghai, China. Cost of international transportation, visa application and other related expense will be paid by participants.

Registration:

1. Trainees need to log on to the Ministry of Science and Technology web site:https://mostip.cistc.gov.cn/student_login.aspx, choose **No.1961, "Application and Analysis of 3D Printing Technology in Medical Field "** for registration;
2. After completing the online registration, please send the following materials to the *email address of the contact person* before **August 30, 2019** (Beijing time):(1)Application Form (attachment); (2) Valid Health Certificate (within 6 months); (3)Photocopy of Passport (valid for at least 6 months). A formal invitation will be sent upon approval.

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P.S. Please send the Registration Form to sun.xiaoning@zs-hospital.sh.cn, and copy to yaoyaozhang@med-3d.com.

