| | # Job offer | |

Position : Post-doctoral
Expected starting date period: 1 September- 30 November 2008
Duration: One or Two years
Deadline of this proposal : 18 April 2008

Microfluidic Devices for Advanced Cell/Tissue Culture and Engineering

Summary of research/technical work :

- Post-doctoral in Bio Technology at LIMMS/CNRS-IIS, Tokyo
Principal investigator and his colleague at the Institute of Industrial Science (IIS), the University of Tokyo are interested in exploring the challenges and opportunities of Microfluidics in its application to cell/tissue engineering. In their more than five years of experience in microfluidic cell-culture devices, they confirmed the potential benefit of microfluidic environment to cell/tissue culture for analytical purposes, that could become one of the alternatives to animal testing. They also have developed a couple of key technologies such as, membrane-based devices, an on-chip perfusion mechanism, integrated sensors, etc. A new comer to this project is expected to extend this work to advanced microfluidic techniques for "Stem Cells culture" or "analyses of Multiple Organ Interaction". The laboratory is well equipped with the apparatus for mammalian cell culture and analysis as well as the full-set of PDMS-based softlithography processes. The project is a joint work with Prof. Yasuyuki SAKAI in the same institute as the principal investigator.

Required knowledge of candidate:

- To be scheduled to receive the PhD before starting the fellowship
- Candidates are expected to be skillful in microfluidics as well as device fabrication, and have much interest in mammalian cell culture and analysis, or vice versa. A challenging sprit would help a lot for tackling into this interdisciplinary and cutting-edge research area.

Location and other practical information:

- LIMMS/CNRS-IIS (UMI2820), Tokyo, Japan   http://limmshp.iis.u-tokyo.ac.jp/
- Host Professor : Teruo FUJII
- Equivalent to JSPS Post-doc salary

Contact(s):

CV/Motivation/Recommendation(1) by email to limmsadm@iis.u-tokyo.ac.jp
E-mail Object should be "LIMMS_PD_08F" followed by name.