

OPEN POSITION: POST-DOC

IIT (www.iit.it), with headquarters in Genova (Italy), is a non-profit institution with the primary goal of to promote excellence in basic and applied research and to contribute to the economic development of Italy.

The **Center for MicroBioRobotics@SSSA** of the **Istituto Italiano di Tecnologia (IIT)** (<http://mbr.iit.it>), directed by Dr. Barbara Mazzolai, aims at developing innovative methodologies and robotic technologies, new materials, and advanced components, both for the design and construction of high performance bio-inspired machines and systems at the micro scale, and for the development of devices for biomedical, environmental, and rescue applications. The mission of the Center is to generate and promote new scientific and technological knowledge in the microbiorobotics field, which is fully deployed by inventions deriving from an interdisciplinary approach to the tackled scientific problems. The scientific activities are carried out within the MicroRobotics and the Smart Materials Platforms. Application is invited for the following position:

- **n.1 Junior** (less than 2 year experience after PhD or equivalent experience) **or Senior** (at least 2 year experience after PhD or equivalent experience) **Post Doctoral Position**.

Sound theoretical and experimental skills in **mechanics and fluidics** are required; skills in **physical and numerical modelling** are highly advantageous, as well as experience in microengineering design and micromanufacturing technologies.

Applicants should possess a PhD degree in one of the following disciplines: **mechanical engineering, aerospace engineering, mathematical engineering**, bioengineering, **physics, applied mathematics**, microengineering, micro-/nano-technologies (this list is freely ordered, i.e. it does not imply any ranks amongst the listed disciplines). Candidates from other disciplines are also welcome, provided that they demonstrate skills in the above-mentioned areas.

The selected candidate will work on the **development of microrobotic components and systems for biomedical applications**, able to perform therapeutic and diagnostic procedures with minimal invasiveness in remote locations of the human body. Addressed districts include (yet they are not restricted to) the **cardiovascular and the central nervous systems**. The selected candidate will work in a microengineering context, also in collaboration with medical doctors, drug developers, chemists and material scientists.

The successful applicant has free spirit, strong capacity to generate novel ideas at the borderline of science and technology, and wishes to work in team and cooperate over various disciplines. Proficiency in writing/spoken English is mandatory.

The **position is available from 01/03/2012 for 12-24 months** (duration depends on applicant profile; contract can be renewed on the basis of performance). Salary and benefits are competitive with international standards (**expected gross salary range: 30-38 k€/year**). The candidate will join a young and enthusiastic team and will co-tutor several PhD students working in the above mentioned research areas.

Application deadline is December 21, 2011

Application documents, to be sent electronically, are: **cover Letter, CV, and two letters of reference**.

In order to comply with the Italian law (art. 23 of Privacy Law of the Italian Legislative Decree n. 196/03), we have to kindly ask the candidate to give his/her consent to allow IIT to process his/her personal data. The Italian Institute of Technology is an Equal Opportunity Employer that actively seeks diversity in the workforce.

Send application to: Dr. Edoardo Sinibaldi (edoardo.sinibaldi@iit.it)