

Upcoming Post-doc position @University of Rome Tor Vergata, Rome, Italy



The position is within the framework of the project MicroSystemQ

MicroSystemQ aims at developing high-tech solutions for single-cell analysis and sorting, by leveraging the synergy between *Microfluidic Impedance Cytometry* and *Machine Learning*. MicroSystemQ is highly interdisciplinary, spanning across the fields of bioengineering, computer science, and cell-biology, and has high-impact applications in life-science research and agri-food industry.

Consortium

- University of Rome Tor Vergata, Department of Civil Engineering and Computer Science (PI: Federica Caselli)
- Italian National Research Council, Institute for Photonics and Nanotechnology (PI: Adele De Ninno).

Funding: Regione Lazio, "Research Group 2020".

Post-Doc position

Location: University of Rome Tor Vergata, Department of Civil Engineering and Computer Science (Biomedical Microdevices Lab), Rome, Italy

Duration: 12 months

Expected start date: October/November 2022

Profile of the ideal candidate:

- PhD in Engineering or similar fields
- Laboratory experience with microfluidic devices
- Good track-record of scientific publications
- Strong English fluency
- Know-how in one or more of the following areas will be considered as preferential, but not mandatory: active cell-sorting systems, impedance cytometry, electronic circuits design, microfluidic device design, cell handling protocols.

Activities: the Post-Doc will contribute to the design of innovative microfluidic devices for impedance-based single-cell analysis and sorting. He/she will be responsible for the experimental setup and will perform the measurements. He/she will participate to data analysis in synergy with the other team members. Opportunities for supervision of graduate students and dissemination at international conferences are foreseen.

For more information please contact: Federica Caselli (caselli@ing.uniroma2.it)