

An MS-Specialist position in Mass Spectrometry Technological Unit – IEO, Milan.

The Unit provide MS-based proteomics analysis for Department of Experimental Oncology (DEO, <https://www.research.ieu.it>, <https://www.ieu.it>) scientists, including protein identification, protein expression profile either in label-free or label-based methods (SILAC, TMT), interaction proteomics (AP-MS, proximity labelling) and PTMs characterisation. The unit is equipped with state-of-art of Orbitrap-Hybrid mass spectrometers. The instruments are operating in bottom-up workflows (DDA, DIA) and are coupled to a variety of nano-flow chromatography systems (nLC-1200, Neo Vanquish and Evosep-one). The unit also makes use of an 1680 HPLC (Agilent) for offline peptide fractionation (RP-HpH, SCX). Recently, we implemented Quantitative Proteomics Made Simple (QProMS), an R-based algorithm, search engine-independent data analysis and visualisation tool (<https://bioserver.ieu.it/shiny/app/qproms>).

We are looking for a motivated, enthusiastic person to work on sample preparation protocols optimization and to operate LC-MS equipment as well as to run proteomics data analysis pipelines.

Key responsibilities are:

- Operate and maintain Unit equipment.
- Reliably document all procedures along QC standards.
- Closely collaborate with research groups to plan experiments, communicate results, and provide analytical support.
- Introduce, train and supervise users to sample preparation, equipment operations and provide evaluation support.
- Implement rules/guidelines/SOPs.

Requirements

- Advanced degree (M.Sc. or Ph.D.) in Chemistry, Biochemistry, Biology or a similar field.
- Solid grounding in common proteomic assays and MS-related bench techniques (Protein extraction, digestion and clean-up protocols).
- Ability to perform basic analyses in common software stools (i.e MaxQuant, Perseus, PD, DIA-NN).
- A broad understanding of instrument capabilities and troubleshooting (routine operation and maintenance).
- Proactive approach to collaborations and a demonstrated ability to work in a team environment.

Contract and salary conditions will be discussed based on candidate profile.

Potential applicants are encouraged to contact Dr. Alessandro Cuomo (Head of the Unit) sending a CV with at least one referee either to alessandro.cuomo@ieu.it or to <https://www.research.ieu.it/careers-and-jobs/postdoctoral-fellows/postdoc-position-mass-spectrometry-unit/>