

*Within the SAMOTHRACE project\*, [STLab](#) is hiring multiple figures for research and development activities, specifically:*

*Development of ultra Low-noise readout systems for current and charge measurements of Silicon Carbide solid state sensors*

The activity will support the **development of detectors for Medical Physics**. Specifically, will support the development of ultra low-noise current and charge integrator readout systems to be combined with novel solid-state detectors based on **Silicon Carbide (SiC)**, for monitoring and dosimetry of particle beams with **ultra-high dose rates (UHDRs)** for **FLASH radiotherapy**.

The activity, performed for the start-up company [STLab](#), will be in collaboration with the [Italian National Institute for Nuclear Physics \(INFN\)](#), [Catania Division](#) and the university of Catania [Department of Physics and Astronomy "E. Majorana"](#).

The candidate will have the opportunity to join a **stimulating research environment** and to work in close contact with a academic and **industrial partners**, while easily working from home.

The candidate should preferentially have the following skills:

- Capability of developing Model Predictive Control Systems
- MEG data Analysis capabilities
- Capability of developing Smartphone-Based Sensing Systems
- Excellent communication and socialization skills
- Ability to work in teams and problem-solving achieved