

OPEN POST DOC POSITION IN GANIL – Caen

SPIRAL2 PROJECT

SPIRAL2 PROJECT is looking for a Post doc for the beam commissioning of the new superconducting linac accelerator.

The SPIRAL2 accelerator is installed in GANIL, which is located in Caen, Normandie. It is design for CW acceleration of high current Proton, deuteron, or heavy ions. GANIL is one of the five biggest nuclear facilities to answer the fundamental questions about matter in nuclear physics.

The new accelerator is in commissioning phase. The injector is already commissioned. We expect soon the authorization of the Nuclear safety agency to start the superconducting LINAC commissioning.

The applicant will be part of the team in charge of :

- SPIRAL2 beam tuning
- Comprehension of the physics of this accelerator.
- Interaction beam-cavity and associated effects (μ phonics, coupling, etc..)
- Software development or coordination of software development when needed.

Moreover, participation in preparation of peer-reviewed journal publications, as well as in conferences/workshops/meetings is expected and highly encouraged.

Requirements:

The applicants are expected to hold a PhD degree in accelerator physics.

They have technical skills on accelerator tuning, RFQ, superconducting cavities

Analytical/numerical and programming experience (Matlab, C++, Java, other...)

AREA of Research : Beam-Dynamics, Linear accelerator, Light and heavy ions

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