

Centre d'Etudes Nucléaires de Bordeaux-Gradignan

Gradignan, France, March 18th, 2019,

## 24-month Full Time Contract Scientist

The Centre d'Etudes Nucléaires de Bordeaux-Gradignan (<a href="http://www.cenbg.in2p3.fr">http://www.cenbg.in2p3.fr</a>), a public research laboratory funded by the National Center for Scientific Research (CNRS http://www.cnrs.fr/en) and its National Institute of Nuclear and Particle Physics (IN2P3 https://in2p3.cnrs.fr), and by Bordeaux University (https://www.u-bordeaux.com), is proposing a 24-month full time contract for a scientist. The laboratory is located in Gradignan, France, near Bordeaux.

The candidate will join the iRiBio team (http://www.cenbg.in2p3.fr/-lriBIO-). He/she will contribute to the development and validation of the very low energy Geant4-DNA extension (http://geant4-dna.org) of the general purpose and open access Geant4 Monte Carlo simulation toolkit (http://geant4.org, http://geant4.in2p3.fr).

In particular, he / she will contribute to the following topics, currently under development within the Geant4-DNA Collaboration:

- extension of track structure simulation capabilities in biological medium,
- improvement of water radiolysis simulation,
- development of multi-scale geometries of biological interest for the prediction of damage,
- inclusion of biological repair models,
- development of Geant4-DNA-based applications related to radiobiology and medical physics.
- irradiation of biological samples on the CENBG cellular irradiation microbeam line.

The candidate is expected to have strong experience with the simulation of particle-matter interactions (ideally with Geant4) and with C++ coding. He / she will collaborate with physicists, chemists and biologists in an international environment (in particular Geant4 and Geant4-DNA Collaborations). Candidates must have defended their PhD within 3 years at the start of this contract

If interested, please send your CV, motivation letter and two support letters to incerti@cenbg.in2p3.fr before June 30th, 2019. Candidates will be interviewed.

The position will start from **September 1st, 2019**.

For further information please contact Sebastien Incerti (incerti@cenbg.in2p3.fr, phone: +33 5 57 12 08 89).

> Sebastien Incerti Spokesperson of the Geant4-DNA Collaboration

http://www.cenbg.in2p3.fr

