



Centre d'Études Nucléaires de Bordeaux-Gradignan

Gradignan, France,  
July 1st, 2021,

The Centre d'Études Nucléaires de Bordeaux-Gradignan (<https://www.cenbg.in2p3.fr>), a public research laboratory of CNRS (<https://www.cnrs.fr>) / IN2P3 (<https://in2p3.cnrs.fr>) and the University of Bordeaux (<https://www.u-bordeaux.fr>) in France, is offering a postdoctoral contract starting in January 2022, up to 18 months, depending on experience.

The candidate will join the interdisciplinary IRIBIO team of the laboratory to contribute to the development and experimental validation of the Geant4-DNA open-source platform (<http://geant4-dna.org>), for the simulation of DNA fragmentation under proton and alpha irradiation. The CENBG leads the Geant4-DNA international collaboration since 2008 and has developed a microbeam irradiation facility, where several experiments will be conducted to validate the simulations. The candidate may be involved in both the development of the Geant4-DNA software and in the participation in the irradiation experiments.

These activities will take place in the framework of the "BioRad3" project funded by the European Space Agency over the period 2021-2023. The candidate will be able to interact in an international collaborative environment (Geant4-DNA and Geant4 collaborations) and will have the opportunity to valorize his/her work (open access codes, publications, conferences).

The candidate will be familiar with particle-matter interactions and will ideally have knowledge of the use of Geant4 and Geant4-DNA, as well as good C++ programming skills. An interdisciplinary curiosity will be welcome.

The candidates will be interviewed.

For any questions and to apply, please contact:

Hervé Seznec, IRIBIO team leader: [herve.seznec@cenbg.in2p3.fr](mailto:herve.seznec@cenbg.in2p3.fr)

Sébastien Incerti, Geant4-DNA spokesperson: [incerti@cenbg.in2p3.fr](mailto:incerti@cenbg.in2p3.fr)

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