

Post-doctoral position at the SUBATECH laboratory, Ecole des Mines de Nantes, UMR 6457 CNRS, University of Nantes, France

Monte-Carlo simulation of a backscatter x-ray imaging device dedicated to the characterization of composite materials

Key words: simulation, Gate, Monte Carlo, instrumentation, composite materials, x-ray backscatter imaging

SUBATECH is developing x-ray non destructive testing techniques dedicated to the characterization of composite materials. In the frame of a collaborative project involving EADS IW, SUBATECH is developing a control method with x-ray backscattering. The work will consist in simulating an imaging device with GEANT4/GATE and in determining the ability of the method to characterize flaws in composite plates.

The candidate must have a PhD or an engineer degree in physics, with a good knowledge in the radiation-matter interaction field. He/She should preferably have some experience in Monte-Carlo simulations with Geant4/Gate, and skills in ROOT and C++.

The position is opened as soon as possible for 12 months

Please email a CV, a motivation and a reference letter to

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