

Junior /Medior Design Engineer Fuel Studies (Neutronic)

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Company: ENGIE

Location: Brussels

Category: computer-and-mathematical

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01/02/2023

Tractebel's Nuclear Entity seeks for its Core & Fuel studies Group a (m/f) :

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THE WORKING ENVIRONMENT

The Core and Fuel Studies Group within the "Nuclear Processes Competence Centre is a multidisciplinary team working both on the nuclear fuel and the preparation of the dismantling activities. As such the Core & Fuel Studies Group is in charge of the Tractebel activities related to the fuel cycle, core design, safety evaluation and core operational support for nuclear reactors for the Belgian Utility. The team performs criticality and shielding calculation for the spent fuel, as well as activation calculations in support of the waste characterization in preparation of the dismantling activities.

To manage these activities the group is subdivided into three operational subgroups:

i) Cycles Studies, incorporating Cycle Studies activities

ii) Neutronic studies & Tools: incorporating all activities related to Criticality, Shielding, Activation, Residual Heat and Fuel Data Base(s)

iii) Core Multiphysics, Methods & Support, encompassing cross-cutting activities and common projects within the range of Core & Fuel Studies expertise

your job

The team is currently looking for a Design Engineer within the Neutronic studies & Tools sub-group, you will be in charge of various neutron studies and support the development of different in-house tools.

While focused on neutron studies, the job includes a wide range of applications:

Engineering studies in the domain of core and fuel physics using industry-standard methods and simulation codes;

Neutron activation studies;

Radiation transport and shielding calculations;

Spent fuel characterization;

Fluence, source terms and decay heat calculations;

Safety-criticality assessments;

Various neutronic studies related to spent fuel casks;

Writing Engineering / synthesis reports of your analyzes.

YOUR PROFILE

Keywords : pressurized water reactor, neutronics, simulations, codes

You are a civil specialized in nuclear energy or nuclear physics.

You have a good theoretical background of nuclear systems and core physics phenomena.

You are keen to develop a technical expertise and ready to invest yourself in the physics simulation codes and methods.

You're eligible to obtain authorization of the competent authorities to work with Monte Carlo code. A practical proficiency in neutronics and Monte Carlo calculations would be an asset.

You have proficiency in IT (with an emphasis python programming), or are willing to learn this

quickly.

You are fluent in Dutch or French, with a good knowledge of English. And you are able to use these languages to write clear technical synthesis reports and for easy communication.

You apply self-verification with a rigorous mind and you deliver quality within tight schedules.

You are good listener, dynamic and you like teamworking.

#TRACTREF-0405|35|01|04#

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