

Institute: **Environment, Health and Safety**
Expert group: **Radiological Impact and Performance Assessments**
Eenheid: **Biosphere Impact Studies**

Job title: Temporary scientific collaborator (m/f)

Job description:

As *Forest Ecosystem Modeller* you:

- collaborate on the modelling of radionuclide transport at the geosphere-biosphere interface;
- develop a radionuclide cycling module for soil-vegetation ecosystems including the processes that control water, carbon and nutrient fluxes in the rhizosphere;
- help couple this module with a forest model as part of a decision support tool to manage climate change risks to forest ecosystems;
- help formulate new project proposals for external funding based on the modeling skills developed in this area;
- write scientific publications.

Required qualifications:

- PhD in bioengineering, soil sciences, hydrogeology or environmental physics;
- relevant research experience in geochemical and/or ecological modelling;
- working knowledge of computer programming (e.g. FORTRAN, or C++) and modeling codes (e.g. Ecolego, GoldSim or ModelMaker);
- familiarity with some of the following codes: PHREEQC, WHAM 6, Geochemist's WorkBench (GWB), HYDRUS-1D, HP1 is an advantage;
- strong analytical and synthetic thought;
- ability to work in a team and independently;
- good communication skills, ability to report clearly, both orally and in writing;
- fluency in English, some knowledge of Dutch or French or willingness to attend Dutch or French language classes.

Duration: 2 years

Send your application letter and detailed curriculum vitae with reference **NN 2012-020** to:

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