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CENTRE DE RECHERCHE PUBLIC
HENRI TUDOR
www.tudor.lu

The Public Research Centre Henri Tudor is recruiting for its Resource Centre for Environmental Technologies (www.crte.lu):

2 R&D Engineers (M/F)

*Full-time contract, 2 years (extension possible).
Immediate opening*

The positions are offered within MUSIC, which is a European Interreg IVB project involving five cities and two research institutions investigating the development of **Mitigation** actions to reduce CO2 emissions in **Urban** areas and the creation of **Solutions** for **Innovative Cities**. The Public Research Centre Henri Tudor will lead the development of a web-based integrated Geospatial Urban Energy Support and Information System (iGUESS), which will provide geospatial information and decision support to the relevant European stakeholders to reach a 50% CO2 reduction in cities in 2030.

The focus of the work will be the implementation of open-source geospatial software tools for data and user management; geospatial web services; geospatial prediction, analysis and visualisation; spatial and temporal optimisation; scenario development and assessment as well as uncertainty analysis and decision support. Furthermore, active participation in scientific writing and conference presentations is expected. Some training of project partners on the usage of the developed system is required towards the end of the project.

for Geospatial Software Development ref. P.PRO - 10/077

- M.Sc. in one or two of the following fields: Geoinformatics, Computer science, Software design and development, Geocomputation and work experience in the field of Geospatial Software Technologies;
- Strong skills in web-based geospatial software development, geospatial web services, spatial data infrastructures and data base management is required;
- Strong programming skills in web-based software technologies and knowledge in one or more of the following languages C/C++, Java, Python, Ruby, R;
- Knowledge in visualisation and software licensing is an asset.

for Spatial Analysis and Geocomputation ref. P.PRO - 10/075

- M.Sc. and Ph.D. or equivalent in two of the following fields: Computer science, Urban and Spatial Planning, Geocomputation, Geostatistics, Energy Modelling, Mathematics, Operations Research or Physics;
- Work experience in spatial data analysis, prediction and simulation, spatial optimisation, scenario and uncertainty analysis, energy modelling;
- Strong programming skills in high level languages, such as C/C++, Fortran or Python and one scientific programming language, such as R or MATLAB;
- Excellent scientific writing and presentation skills.

The positions require interdisciplinary thinking, well developed communication skills and team spirit. The candidates should be highly motivated, creative and open for challenges. Fluency in English is mandatory, good command of German or French is an advantage. The Centre offers an attractive remuneration package and encourages the professional and personal development of its staff.

If you are interested, please send your application, including your letter of motivation and your curriculum vitae, quoting the appropriate vacancy reference mentioned, to:

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More information on www.tudor.lu/jobs