

**Demande de Publicité Internationale  
Recrutements prévus dans les Projets ISITE-BFC**

<b>Job title</b>	<b>Post-Doc Isotopic studies of the greenhouse gases budget (N<sub>2</sub>O / CO<sub>2</sub>) in soils receiving carbonate liming products</b>
<b>Ref</b>	2021-01-NATADGES
<b>Job type (PhD, Post-doc, Engineer)</b>	Postdoctoral position
<b>Contract duration (months)</b>	18 months
<b>Qualifications (Master degree, PhD...)</b>	PhD in soil geochemistry
<b>Job hours (full time/ part time)</b>	Full Time
<b>Employer</b>	INRAE
<b>Host Laboratory</b>	UMR AgroEcology
<b>URL Host Laboratory</b>	<a href="https://www6.dijon.inrae.fr/umragroecologie">https://www6.dijon.inrae.fr/umragroecologie</a>
<b>Address Host Laboratory</b>	UMR 1347 AgroEcology 17 rue Sully 21065 Dijon Cedex France
<b>Job description</b>	<p>N<sub>2</sub>O is a greenhouse gas with a high global warming potential, estimated to contribute up to 6% of radiative forcing at the global scale (10 % in France). Agricultural soils appear to be the main anthropogenic source of this gas. The production of N<sub>2</sub>O by soils primarily occurs through two biological processes (nitrification and denitrification) submitted to complex biotic and abiotic regulations. Different options for mitigating soil N<sub>2</sub>O emissions, including liming acidic soils, are currently emerging.</p> <p>The recruited candidate will study simultaneously (i) the fate of C from carbonate liming products (CO<sub>2</sub> production, dissolution and lixiviation, ...) when applied to soil and (ii) how much carbonate products can reduce soil N<sub>2</sub>O emission by promoting the N<sub>2</sub>O reduction. The approach will be based in particular on the use of <sup>13</sup>C and <sup>15</sup>N isotopic technics.</p>
<b>Supervisor(s)</b>	<b>Dr C. Hénault (INRAE – AgroEcology) will be the supervisor.</b> <b>catherine.henault@inrae.fr</b>

	in collaboration with Dr O. Mathieu and Dr P. Amiotte-Suchet (UMR CNRS 6282 Biogeosciences) through the <i>NatAdGES</i> project ( <a href="https://www6.inrae.fr/natadges">https://www6.inrae.fr/natadges</a> ). The postdoc research fellow will benefit from access to the GISMO platform, hosted in the CNRS Biogeosciences laboratory ( <a href="http://gismo-solutions.fr/en/home">http://gismo-solutions.fr/en/home</a> ) and specialized in stable isotopic tracing technics in environment.
<b>Candidate profile</b>	<p><b>Recommended training:</b> PhD in soil biogeochemistry</p> <p><b>Appreciated experience:</b></p> <ul style="list-style-type: none"> <li>- Fate in carbonates in soil</li> <li>- Soil nitrogen cycle</li> <li>- Soil hydrological and biochemical functioning</li> </ul> <p><b>Skills sought:</b></p> <ul style="list-style-type: none"> <li>- Mass Spectrometry</li> <li>- Gas Chromatography</li> <li>- Isotope handling</li> <li>- Isotopic calculations</li> <li>- Multiscale soil handling</li> </ul>
<b>Keywords</b>	Soil, isotopic tracing, nitrous oxide, carbon dioxide, carbonates
<b>Application deadline</b>	February 7 <sup>th</sup> 2021
<b>Starting Job</b>	March 1 <sup>st</sup> 2021 (expected)
<b>Application</b> <i>Depending on the type of position</i>	<p><b>Post-doc position</b></p> <p>Please send the following documents (all in one PDF file) by e-mail to <a href="mailto:catherine.henault@inrae.fr">catherine.henault@inrae.fr</a></p> <ol style="list-style-type: none"> <li>1) For EU candidates: Copy of your national ID card or of your passport page where your photo is printed. For non-EU candidates: Copy of your passport page where your photo is printed.</li> <li>2) Curriculum Vitae (may include hyperlinks to your ResearchID, Research Gate Google Scholar accounts).</li> <li>3) Detailed list of publications (may include hyperlinks to DOI of publications).</li> <li>4) Letter of motivation relatively to the position (Cover Letter) in which applicants describe themselves and their contributions to previous research projects (maximum 2 pages)</li> <li>5) Copy of your PhD degree if already available.</li> <li>6) Coordinates of reference persons (maximum 3, at least your master thesis supervisor): Title, Name, organization, e-mail.</li> </ol> <p>If you have questions regarding the application, please contact the supervisors.</p>



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