

PhD Opportunity: Research on Subsurface Hydrogen Storage

Join our team in a cutting-edge research project in the field of subsurface hydrogen storage, part of a Horizon Europe program.

We are seeking an ambitious and driven PhD candidate with a strong background in geochemistry to join a leading research team focused on experimental geochemistry. This exciting research will take place at GNS Science in Taupō, New Zealand, in collaboration with the University of Canterbury.

About the Research:

The project will involve groundbreaking experimental work to characterize the interactions between microbiology, water-rock-hydrogen reactions, aiming to optimize subsurface hydrogen storage processes. The research will employ innovative methodologies, combining practical experiments with theoretical modelling.

Requirements:

- **Academic Qualifications:** A master's degree in Geochemistry or a closely related discipline. Candidates with a dual bachelor's degree in Geology and Biology will be given preference.
- **Laboratory Expertise:** Proven experience in chemical laboratory settings.
- **Specialized Knowledge:** Prior work with water-rock reactions and microbiological systems is highly advantageous.
- **Technical Proficiency:** Familiarity with geochemical modelling software (e.g., Phreeqc, GWB) is an asset.
- **Collaborative Skills:** Strong analytical and technical abilities, with a proven ability to work effectively within a team.

What We Offer:

- **Comprehensive Financial Support:** Full funding for university tuition fees and a competitive living stipend to ensure a focus on your research.
- **Impactful Work:** Be part of a research initiative with the potential to significantly influence global energy strategies.
- **Supportive Research Environment:** Work in a dynamic and young research environment.
- **International Collaboration:** Opportunities to collaborate with leading research groups across the consortia, fostering a global research network.
- **Career Development:** Gain skills and experience that will position you at the cutting edge of geochemical research and energy innovation.

Application Process:

To apply or for further details, please contact Dr. Peter Rendel at p.rendel@gns.cri.nz. Applications should be submitted in English and include: Your motivation for applying to the position and your research interests, a comprehensive CV, academic transcripts, and contact details for two referees.

Why Apply?

This PhD opportunity is not just a chance to contribute to high-impact research, but also to immerse yourself in the natural beauty and vibrant culture of New Zealand. If you are passionate about geochemistry and looking to make a meaningful contribution to the future of energy storage, we strongly encourage you to apply!