



**Timothée DUPAIGNE**  
Senior hydrogeologist, expert  
in geothermal resources

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For more than 15 years, I have been working as hydrogeology expert in three different context : East Africa (Ethiopia), Europe (France) and Pacific Ocean (New Caledonia). This led me to develop skills for potable water, risk, and industrial environment.

I also developed skills in geothermal resources at low and medium temperatures in Paris basin, and in high enthalpy systems in the East African Rift.

Geothermal is the required alternative to fulfil energetical needs while insuring the decarbonation of our societies.

## Hydrogeological and geothermal expert [Water Geothermal Sustainability](#) Paris, France

*From January 2023 to present*

- Training program development for Ethiopian students, in partnership with Cergy Paris University, for French Ministry of Foreign Affairs
- Geological mapping of Mashyuza geothermal prospect in Rwanda, Leap-Re program – Geothermal village project
- Regulatory support for deep geothermal projects in Paris basin, France
- Hydrogeological study with regard to climate change, Wallis (South Pacific volcanic island)
- Opportunity studies for geothermal in France

## Regional Hydrogeologist [French Geological Survey \(BRGM\)](#)

Paris, France  
2018 – 2022

- Regional referent for geothermal development in Paris district : promoting geothermal usage
- Cartography of the surface geothermal potential of Paris Greater Metropole (2021)
- Piezometric and geothermal study of the deep and strategic albian aquifer in Paris basin (2019)
- National project manager for the public subsurface database – the [BSS](https://infoterre.brgm.fr/) project in open access on <https://infoterre.brgm.fr/>
- Hydrogeology studies for management of flooding hazard
- Technical support for urban communities and water management unions in Ile de France district
- Natural disaster expert (floods from underground waters)
- Development of international projects

## Project director [MICA Environnement](#) Lyon, France 2014 – 2017

- Environmental project management on mines and quarries, facilities for inert wastes and photovoltaic plants
- Environmental hydrogeology and hydrology, groundwater modelling (Modflow), environmental impact assessment
- Business development

## General manager [MICA Environnement NC](#) Nouméa, New Caledonia

2011 – 2014

- Management of an engineering office (10 employees, 900k€ sales): administrative and financial management, human resources, business development
- Environmental support to Eramet on 10 mines (Nickel) in New-Caledonia : geological and hydrogeological cartography, hydrology, mine remediation, monitoring
- Potable water management projects : protection areas, salt intrusion, monitoring, pumping tests, drilling monitoring, geophysical investigations

- Water supply project management in three districts in southern Ethiopia : Financial and administrative management, team training and human resources management
- Hydrogeology in volcanic context

## Junior hydrogeologist [Conseil Départemental de Nièvre](#) Nevers, France – 2005

## Education and Training

### Certificate of Advance studies in Deep Geothermal systems, [Université de Neuchâtel](#) – Suisse, 2022–23

### Short course in reservoir modeling at Argeo C9, [Lecturers from the university of Auckland](#) – Djibouti, 2022

### Master's degree in Groundwaters, [Université Joseph Fourier](#) – Grenoble, 2005

### BSC degree in geology and environment, [Université Bordeaux 3](#) – Bordeaux, 2004

- *Groundwater modelling, Visual Modflow* – [SAFECE](#), 2015
- *Tracers applied to hydrogeology* – [CETRAHE](#), 2015
- *Expertise for natural disasters* – [BRGM](#), 2018
- *BD Lisa –French hydrogeological repository* – [BRGM](#), 2018
- *Geothermal energy with heat pumps* – [BRGM](#), 2019

## Languages

**French** – Native

**English** – Fluent

**Spanish and german** – Basics

**Amharic** – Spoken

