



Hydrogeology and industrial risks

Objectives

This programme provides training for engineering students in **hydrogeological prospection**, enabling them to develop **pollution diagnostics** and **pollution control methods** and to **learn environmental risk assessment skills**.

Who is the programme for?

The programme is for students who have taken the “planning and environment” option and are interested in **water resources**, soil and **pollution/pollution control**. The programme content presupposes an interest in technical aspects.

Career opportunities

- >> **Sectors:** This programme opens up opportunities to work in research centres and departments, major environmental firms (e.g. Veolia and Suez) and public research institutes (e.g. BRGM and INERIS).
- >> **Geological engineering assignments:** hydrogeological prospection, pollution diagnostics and development of (water or soil) pollution control methods, management and protection of water resources, environmental risk assessment (waste dump construction, land-based infrastructures such as waste storage sites, etc.).

Content

- > Hydro-geophysics
- > Safeguard of catchment areas
- > Borehole geophysics (well logging)
- > Water and waste
- > Mass and energy transport phenomena in porous media (water flow)
- > Hydrogeological modelling: hydrodynamics, hydrodispersion, numerical simulation methods
- > Industrial environment and visits to polluted sites
- > Mass and energy transport phenomena in porous media: water/petroleum gas two-phase flow in underground environments, contaminants, convection, dispersion (case study and individual project)
- > Collective or individual project on a real-life industrial scenario.

Six-month company placement

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