

Causal impacts of agricultural water reserves**Context**

The aim of this internship is to measure causally the economic impacts of agricultural water reserves on French agriculture, in a context of increasing scarcity of water resources. Water storage in agricultural reservoirs (e.g. dams, reservoirs, etc.) is the subject of numerous debates, being either perceived as a solution for securing agricultural production in time of droughts or criticised for its negative effects on agents who no longer have access to this water (both within and outside the agricultural sector). Using new causal inference methods, the main objective of the internship is to assess the effects of water reserves on income and agricultural practices (crops, specialisation), but also on inequalities within the agricultural sector, ultimately allowing to answer questions such as: *who benefit from agricultural water reserves? What are the short- and long-term impacts of these reserves?* This internship will exploit the heterogeneities linked to local contexts (rainfall, structure of catchment areas, type of agriculture, date & location of water reserve construction, etc.) to document the mechanisms behind the economic impacts of water reserves on agriculture. The results will provide valuable input into the debate on optimal water allocation in the context of climate change. They will also help to shed light on public policy issues, in particular the relevance of subsidies allocated to these infrastructures.

Missions

- Building a database linking agricultural water reserves, income & farming practices and climate from 1950 to 2023.
- Literature review on the effect of irrigation and water reserves on agriculture in the context of climate change.
- Econometric analyses on the compiled database using difference-in-differences.
- **A deliverable taking the form of a Working Paper/ Policy brief is expected.**

Profil

This position is aimed at master students/engineering students in the fields of economics-energy-environment. The candidate must have organizational ease, autonomy, proven writing skills and ability to work in relation with the various interlocutors of the Chair. A good level of applied econometrics is required for this internship. A strong personal interest in agricultural economics or climate change is expected.

This internship may lead to a thesis project at the Chair.

Duration: Starting March-April 2025 for a 6-month period

Place : Chaire Economie du Climat, Palais Brongniart, 28 Place de la Bourse, 75002

CEC Salary: €1,200 gross per month + Lunch vouchers (face value 9€)

Contact and documents: send CV, Cover letter **plus** Master 1 grades and Master 2 grades available in **ONE PDF ONLY** to claire.berenger@chaireeconomieduclimat.org indicating the internship offer's **(only 2 applications maximum on all CEC internships offers)**

Closing date for applications: 17/01/2025

Interviews from 20/01/2025

Final response to applicants: 10/02/2025