

## *The regulation of CO<sub>2</sub> infrastructures*

Decarbonizing technologies (e.g., Carbon Capture and Storage – CCS) or negative emission technologies (e.g., Bio-Energy with CCS, or Direct Air Capture), are expected to play a major role to meet the ambitious CO<sub>2</sub> abatement targets required for a 2°C-compatible world. However, the large-scale deployment of these technologies has so far remained limited and further research is needed to examine the economic barriers hampering their deployment and propose adapted policy remedies.

**Information&Debate/Policy Brief deliverable must be written during the internship.**

**The proposed internship focuses on the economics of the CO<sub>2</sub> transportation infrastructure needed to support the large-scale deployment of these technologies.** Our ambition is to conduct a series of investigations aimed at:

- (i) clarifying the main economic features of the regulatory and institutional arrangements imposed on these infrastructures;
- (ii) studying how that institutional framework affects cost, investment, and the pricing structure retained for these infrastructures;
- (iii) examining the conditions for an infrastructure push aimed at building these infrastructures ahead of proven demand;
- (iv) identifying whether changes in regulatory mechanisms are needed to facilitate the introduction of these new technologies.

### **Missions**

- Clarify the regulatory and institutional arrangements proposed to govern the provision of CO<sub>2</sub> transportation infrastructures;
- Conduct a structured comparison with the regulatory and institutional arrangements used for natural gas infrastructures;
- Examine the theoretical properties of the proposed regulatory framework, its performance and its impacts on cost and investment behavior;
- Analyze whether changes in the proposed regulatory mechanisms are needed.

### **Profile**

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 understanding of the techno-economics of these technologies is needed. A personal interest in the areas of climate change economics and regulatory economics is expected.

*This internship can lead to a CEC thesis project*

**Duration:** Starting March-April 2021 for a 6-month period

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

**Salary:** 90% of the minimum wage

**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](mailto:claire.berenger@chaireeconomieduclimat.org) indicating the internship offer's **(only 2 applications maximum on all CEC internships offers)**

**Application closure:** January 10<sup>th</sup>, 2021

**Interviews** from January 11<sup>th</sup> to February 1<sup>st</sup>, 2021

**Final response** to candidates: February 8<sup>th</sup>, 2021