

Tracking Low Carbon Innovation By and Upstream of EU-ETS Firms

The objective of net zero emissions within the European Union calls for mobilizing all possible decarbonization levers. Low-carbon innovation is set to accelerate, thanks in particular to the Net Zero Industry Act. These elements, however, suggest that the European Union Emission Trading System (EU-ETS) is not sufficient on its own to induce sufficient low-carbon innovation and that it is necessary to rely on a more global approach, focusing in particular on all value chains, and not just the industries subject to the EU-ETS.

This internship will aim to study low-carbon innovation by companies subject to the EU-ETS but also within upstream industries along the value chains. It will aim in particular to identify the links in the value chains that are the most active in terms of low-carbon innovation. To do this, it will rely on the crossing of at least two databases. The first is the register of companies subject to the EU-ETS, the second is the Patstat database of the European Patent Office.

Missions

- Update of low-carbon innovation data from EU-ETS companies in several industry sectors (cement, steel, hydrogen) and extraction of data for at least one other sector.
- Development of a strategy to move up the value chains within these sectors and track low-carbon innovation of upstream companies.
- Development of a statistical or econometric test to identify the links in the value chains within which low-carbon innovation is the most intense.
- A publication in the form of a Working Paper or a *Climate & Debates* must be written during the internship.

Profile

This position is aimed at master students / engineering students in the fields of economy / environment / data science. The candidate must have organizational ease, autonomy and ability to work in relation with the various interlocutors of the Chair. A good command of data processing is expected. A personal interest in the areas of climate change economics is an asset.

This internship can lead to a CEC thesis project.

Duration: Starting March-April 2024 for a 6 month-period

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

Salary: 80% minimum wage if 2^{sd} year of Master, 70% if 1st year - + meal vouchers-face value 9€

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

Application closure: January 9th, 2024

Interviews from January 10th, 2024

Final response to candidates: January 31st, 2024