



Open Positions in Flow Simulation and Carbon Capture and Storage (CCS)

Application deadline: 9 May 2025. Further application periods are planned.

Applicants are invited to apply for open positions available for undergraduate students, master's degree students (MSc.), and research scientists at Universidade Estadual de Campinas ([UNICAMP](http://unicamp.br)). These positions focus on flow simulation and decision-making applied to carbon capture and storage (CCS) challenges. Depending on the role, appointments will be hosted at UNICAMP for up to three years.

Successful candidates will join two leading research groups: the Reservoir Simulation and Management Group ([UNISIM](http://unicamp.br/unisim)) - led by Denis Schiozer, Alessandra Davolio and Guilherme Avansi and the Geological Modelling Group ([MGR](http://unicamp.br/mgr)) - led by Alexandre Vidal, both at UNICAMP. Research in these areas is highly relevant and well-regarded by the energy industries, with a strong emphasis on CO₂ emission reduction.

Application

Candidates must submit the following documents via email to Guilherme Avansi (avansi@unicamp.br) and Guilherme Tonin (tonin@cepetro.unicamp.br) as part of the application process. Applicants should specify the code of the position they are applying for.

- Updated Curriculum Vitae;
- Motivation letter;
- Recommendation letter from a previous supervisor;
- Copy of diplomas/degree certificate(s);
- A video in English (up to 2 minutes) including the following:
 - How you believe your experience and ideas can contribute to the project; and
 - Your motivation for joining UNISIM in the CCS area, your area of interest, and how you can support our research.
- Technical form ([download](#)).

Code	Position	Research theme
P-CCS-GCM	Research Scientist, post-doctorate, master and undergraduate	Geochemical modelling
P-CCS-GMM	Research Scientist, post-doctorate, master and undergraduate	Geomechanical modelling
P-CCS-PRO	Research Scientist, post-doctorate, master and undergraduate	Proxy models (artificial intelligence, Bayesian emulators and so on)
P-CCS-RSM	Research Scientist, post-doctorate, master and undergraduate	Reservoir simulation, uncertainty reduction and decision analysis
P-CCS-RCM	Master and undergraduate students	Reservoir characterization and modelling

Deadline

The deadline for applications is **9 May 2025**. Further application periods are planned. Successful applicants will be invited for an interview before final acceptance.

For informal enquiries or to apply, please contact Guilherme Avansi at avansi@unicamp.br.