Modeling circulation of gas from formation to wellbore annulus to surface during underbalanced drilling
Internship 6 months | Clamart, January 2023

ABOUT US

Our story begins with what it truly means to be a technology innovator. It stems from a common sense of purpose that unites the people of Schlumberger who, representing more than 160 nationalities, provide leading digital solutions and deploy groundbreaking technologies to enable performance and sustainability that are crucial for the global energy industry. With expertise in more than 120 countries, we partner with customers in close collaboration to create industry-changing technologies that unlock cleaner, safer access to energy for every community—including those we live and work in.

SCOPE OF THE INTERNSHIP

Schlumberger is a global technology company that unlocks access to energy for the benefit of the society by environmentally considerate and sustainable approaches that combine deep domain and scientific knowledge with advanced hardware, software, and digital solutions. This internship focuses on the computational fluid dynamics by modeling circulation of gas from formation to wellbore annulus and to the surface during an underbalanced drilling operation. The project will investigate potential avenues on how to couple different flow regimes, such as porous media or pipe flow, for multiphase fluids in a computationally efficient manner.

RESPONSIBILITIES

The candidate will be exposed to various levels of the drilling process, tools for computational fluid dynamics with emphasis on mud and gas circulation inside the well. In this regard, the candidate will work in a multidisciplinary environment of industrial mathematicians, physicists, software engineers as well as field personnel. The results of the internship will be documented in terms of reports and code.

SKILLS REQUIRED

- Oral and written communication skills in English
- Applied Physics and computational mathematics
- Fluid dynamics
- Programming skills (Python, etc.)

Send your resume to CBonomi@slb.com

Schlumberger is an equal employment opportunity employer. Qualified applicants are considered without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, or other characteristics protected by law.