We are looking for a work-study student to join our Service as part of an apprenticeship contract Process Polymers from Business POETS (Polymers Engineering and Technology Support) located in the Technology Center of the Lavéra petrochemical site (near Martigues, 13). The main tasks of this service are:
- Support for the group's polymer workshops and existing Licensees (> 40): reliability, optimization, debottlenecking; industrial tests
- Maintaining the competitiveness of the 3 platforms that we license for internal project or JV purposes: maintaining design skills and tools, process development, optimization
- The realization of signed projects: PDP, Detailed Eng support, Training; startup support.

**Petrochemical site INEOS Lavéra is looking for …**

**Job Description :**
Ineos POLyolefins Engineering and Technology Support (POETS) is responsible, amongst other activities, for providing support to internal and external polymer plants (Gas Phase and Slurry Phase Polyethylene (PE) and Polypropylene (PP) plants). Ineos owns 30 polymer plants and has sold over 70 of these licenses in 25 countries across the world.

In order to provide efficient support and to propose and implement process developments, it is crucial to evaluate all impacts of any operating conditions or design modifications. The fundamental knowledge of our process and technology is synthesized in a large series of process models ranging from Kinetics models, particle growth and overheating, fluidization, entrainment, powder flowability, absorption, degassing, Heat & Mass balances, flow sheeting, training simulators, Advanced process control ….

- The student will launch or continue the development of one or more of these models and/or will contribute to a study aiming at assessing the feasibility of a new development (new catalyst manufacture plant, new process section, debottleneck study, technology competitiveness (reliability, variable cost savings, new products) …)

**The principal missions are :**
- to understand the relevant process for better modelling
- to collect all relevant information (internal & external documentation, existing models)
- to collect lab, pilot and plant data
- to generate additional data at bench scale
- to analyze in depth this data and find correlations linking different process parameters together or process parameters with product properties
- to propose then new models developments that will better represent our process or to tune/improve existing models to fit plant/experimental data.
- to validate these new correlations against the plant data, and or other models
- to use the new model to optimize a part of the process and propose new operating conditions or new designs
- to fully document the work done (model description, data base, user guide, training package)
- to upgrade internal models using latest software available and ensure compatibility
- to implement the model on each client PC (pilot or plant manufacturing, development team …)
- to develop user guides and train these users
- final report and presentation

The student will participate actively in the team’s life, this will give him (her) a unique opportunity to better understand an industrial environment.

A visit of the industrial unit will be organized

**Candidate profile**

Engineering schools or Universities – 4 or 5 years of study, specialized in chemical engineering or process engineering

**Experiences**

Internships in the Oil & Gas industry (refining, petrochemicals, chemicals, renewable energies) are required. Internships in other related industry sectors are appreciated.

Experiences abroad are appreciated

**Skills**

Fluent in English and in French

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*Application Program POLY & ENEP*

*To be addressed to*

INEOS Technologie France SAS

Recruitment Service

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