

We are looking for you!

Dry reforming energy efficiency

Internship / Master thesis (6 months)

In the frame of the CO₂ emission reduction requirements for the steel industry, Paul Wurth is developing the dry reforming of coke oven gas and/or natural gas together with the blast furnace top gas. This technology can allow reducing the CO₂ emissions from the steel plant in a stepwise approach to up to 40%.

Your challenge:

Calculation models for:

- Overall heat recovery flow sheet
- Heat exchangers flame temperature
- Pressure drop calculation
- Individual process parameters of the compressors / blowers
- Energy calculations

Technical documents at conceptual level including

- PIDs, layout, equipment arrangement
- Functional and process description
- Equipment specifications
- Automatic bill of quantity
- Supplier evaluations

Commercial documents including:

- Supplier quotations
- Cost estimation sheet

Elaboration of intermediate and the final report as well as regular presentations of the work progress.

What do we expect?

- Master studies with a specialization in process or chemical engineering
- Technical knowledge with respect to heat and mass balances
- High degree of initiative and responsibility and willingness to fully invest yourself in the assigned project
- Interaction with our purchasing department and colleagues from the relevant technical areas of Paul Wurth as well as with suppliers
- Fluent in English; German or/and French are considered as an asset.

If you are you a teamplayer with good communication and critical thinking skills, if you can perform passionately while working independently, this could be the place for you!

Paul Wurth group is an international engineering company driven by innovation. Our experience is based on a tradition of 150 years and the professional know-how of 1600 employees, located in around 20 countries worldwide. As global leader in ironmaking technologies, we constantly face new challenges that force us to manage an on-going cycle of innovation. We thus take an active role in shaping the industry of tomorrow.

Join us in conquering new challenges and be part of our Paul Wurth team!



Please apply online:
<https://careers.paulwurth.com>

