ARE YOU READY TO TAKE THE LEAD?

Linde is a leading global industrial gases and engineering company, operating in more than 100 countries worldwide. We live our mission of making our world more productive every day by providing high-quality solutions, technologies and services which are making our customers more successful and helping to sustain and protect our planet.

The company serves a variety of end markets including chemicals & energy, food & beverage, electronics, healthcare, manufacturing, metals and mining. Linde's industrial gases are used in countless applications, from life-saving oxygen for hospitals to high-purity & specialty gases for electronics manufacturing, hydrogen for clean fuels and much more. Linde also delivers state-of-the-art gas processing solutions to support customer expansion, efficiency improvements and emissions reductions.

For more information about the company and its products and services, please visit www.linde.com

Linde GmbH, Corporate Office

Position to achieve a PhD Degree - Hydrogen use for recovery of metallurgical waste (m/f/d)

Unterschleißheim, Germany (req8741)

What you will enjoy doing

- You will be a PhD Student in the development of Hydrogen-Fired Oxyfuel Burner Systems
- You will be testing of existing and development of new and innovative, energy-efficient hydrogen-fired oxyfuel burner technology with the goal of using green hydrogen to eliminate CO2 emissions in high temperature industrial processes
- The investigation of how velocities & gas distribution within the burner and physical & chemical interactions within the flames impact the flame length & form, heat transfer and NOx formation will also be part of your tasks
- Additionally you will do the measurement of flame length & shape, noise emissions, flame & furnace temperatures, heat transfer, combustion products and emissions
- Literature surveys and practical investigations into the chemical reactions within hydrogen flame and how these may impact NOx formation will be part of this job as well

What makes you great

- You have a university degree in chemistry, metallurgy, chemical engineering, mechanical engineering, process engineering or comparable courses of study and would like to write your doctoral thesis in an industrial environment
- You have already gained practical experience in the field of research and development, ideally you already have some experience in the field of combustion, while experience in the safe handling of hydrogen and oxygen would be even better
- Practical hands on skills to setup and carry out your own experimental work on both a small lab scale as well as larger pilot scale facilities of up to 500 kW is part of your profile
- You demonstrate a methodical way of working and work very efficiently
- A high level of social competence and the ability to work in a team is part of your skills
- You are willing to take on responsibility and work unsupervised – laboratory work is however never performed alone
- You have a very good command of written and spoken English

Why you will love working with us

Linde acts responsibly towards its shareholders, business partners, employees, society and the environment in every one of its business areas, regions and locations across the globe. The company is committed to technologies and products that unite the goals of customer value and sustainable development.

What we offer you!

This position is limited until 31st December 2025. In addition to an attractive compensation package, we offer you many social benefits, such as an excellent pension plan, flexible working hours and a wide range of health care options. Furthermore, we support you with various offers to help you combine family and career and to support your professional and personal development. A good infrastructure and our company canteen are further benefits.

Have we inspired you?

We are looking forward to receiving your complete application (motivation letter, CV, certificates) via our online job market.

Your contact person

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