

Head of Chemical Data Science



APPLY NOW

Please send at least your CV with relevant work experience, a Cover Letter highlighting your motivation for the job, relevant certificates from your professional education and your expected salary to application@carbon-minds.com. Feel free to attach further documents you think are important.

LIFE CYCLE ASSESSMENT

CHEMICALS

PYTHON

MACHINE LEARNING

SUSTAINABILITY



Full-time/
80%



For the next possible moment, best March to April 2023



Cologne, Germany
partly remote ("Homeoffice in Cologne") is possible

Responsible for extension of database and chemical knowledge with the power of data analytics and machine learning

RESPONSIBILITIES

- Creating an industry first automated carbon footprinting tool for complete product portfolios, primarily by automating the process that matches our chemical carbon footprint data with our customer's raw materials
- Data analysis and research projects. Use machine learning and neural networks to analyze and improve our data. For these projects, we are collaborating with external teams at several universities. You will be involved with implementing and publishing the work in scientific journals
- Expand our data by creating a machine learning based system for automatically including new reactions based on existing databases, and integrate these reactions with our internal methodology to calculate environmental impacts
- Increase our Python capabilities and work with our development team to transition our current Matlab code to Python

JOB REQUIREMENTS

Position type

- Professional, 4+ year of working experience

Education/Degree

- Chemistry, Computational engineering, Chemical engineering, or Mechanical engineering

Required experience

- Extensive Python coding experience is a must
 - ▶ The following packages are needed: **pandas, numpy, scipy, Brightway (optional), PyTorch and TensorFlow**
- Detailed knowledge about organic and inorganic reaction chemistry
- Detailed understanding of the principles of machine learning and the underlying theory
- Basic knowledge about petrochemical processes
- Experience in generating python packages is a benefit but not a must

Language requirements

- Fluent in English, German is a plus but not a must

Additional soft skills

- You are highly motivated to learn and work in an interactive start-up environment
- You have excellent communication and presentations skills

BENEFITS AT CARBON MINDS

- Flexible working hours/potential for partly remote working („Homeoffice“ in Cologne)
- Simple and fast personal improvement with a high learning curve and varying tasks
- We are seeking long term relationships, so we can grow together
- Competitive salary from the start, based on a fixed salary structure accounting for your experience
- Last but not least: **Doing good for the environment!**

You can find more information about us on www.carbon-minds.com

ABOUT


carbonminds

Carbon Minds offers data, consulting and training focused on environmental sustainability for chemicals and plastics. Major multinational companies use our data and services to set or reach environmental targets.

We are a rapid growth SME with an out-sized impact in our industry. Our diverse team of scientists, business leaders and communicators are working to ensure an evidence-based sustainability transition for chemicals and plastics.