



HELGA WAACK

ENVIRONMENTAL TECHNOLOGY AND R&D

PROFESSIONAL SUMMARY

- International Master's degree student in Environmental Technology at LUT University.
- Work Experience in research from universities and research centres in Finland, Australia and Germany.
- Looking for new possibilities to test my skills in a corporate R&D environment and deepen my knowledge about smart energy systems solutions.
- Skilled in modelling energy system and integrating new energy solutions into existing energy systems.
- My strengths are analytical thinking and an ability to set goals and to achieve them.
- Ready and happy to relocate in Finland.

LANGUAGE SKILLS

- German: native
- English: fluent
- Finnish: good
- French: basics

IT SKILLS

- MATLAB: basics
- GAMS: good
- MS Excel: excellent

INTERESTS

Camping & sports activities such as hiking and rock climbing. Playing bass in a metal band.

REFERENCES

Available upon request.

CONTACT DETAILS

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LinkedIn: linkedin.com/in/helga-waack

Location: Lappeenranta, Finland

Nationality: German

WORK EXPERIENCE

INTERNSHIP, STUDENT RESEARCH ASSISTANT

LUT School of Energy Systems, Lappeenranta-Lahti University of Technology LUT, Lappeenranta, Finland
05/2021–07/2021

- Conducting research on the potential of hydrogen for the decarbonisation of the Finnish steelmaking industry
- Calculation of potential of generating green hydrogen in Finland & necessary capacity and saved emissions when using hydrogen in steelmaking
- Writing a research report on the topic

INTERNSHIP, INDUSTRIAL TRAINEE

Commonwealth Scientific and Industrial Research Organisation (CSIRO), Energy centre, Melbourne, Australia
10/2018–01/2019

- Taking part in implementing renewable energy technologies in energy system model
- Data collection for modelling of energy technologies
- Generating of data projections by using basic data
- Combined with writing of bachelor's thesis
- Gaining insight in work of modelling unit at research organisation

STUDENT RESEARCH ASSISTANT

JARA-ENERGY Research Initiative, RWTH Aachen University, Germany
06/2018–09/2018 & 06/2019–08/2019

- Compiled data for energy economic model
- Data research on national regulations for energy transition, development of energy network and phasing-out of coal production in Germany
- Researched performance data for energy technologies
- Sample taking at Gasification Plant for research purposes

EDUCATION

LAPPEENRANTA-LAHTI UNIVERSITY OF TECHNOLOGY LUT, FINLAND

Master's degree programme in Environmental Technology
09/2020–

Specialization in Sustainability Science and Solutions

Major lecture topics: Sustainable System Transition, an Energy Efficient Environment, Renewable Energy Technology

Thesis: "Developing a Concept for a Sustainable Sports Facility"

RWTH AACHEN UNIVERSITY, GERMANY

Bachelor's degree programme in Environmental Engineering
10/2015–05/2019

Specialisation in Decentralised Energy Systems and Heat Protection

Thesis: "Integration of Renewable Energy Technologies in Energy Systems Model"