

Position: Science Associate LCA and Modeling

Start: As soon as possible

Application deadline: 15 May

Type of contract: Open-ended

Concawe is looking for a science associate to support the activities of the Refining into the Energy Transition Management Group, especially in relation to the:

- Vehicles fleet and fuels modelling and carbon intensity/economic analysis (conventional and alternative fuels and powertrains).
- Well-to-Wheels (WtW) and Life Cycle Analysis (LCA) models and evaluations, enabling science-based comparisons between different fuels and powertrains **mix/scenarios**

Who are we?

Concawe is the science division of an international non-profit association (European Petroleum Refiners Association aisbl) whose mission is to provide research & technical support to the EU downstream oil refining industry. Its aim is to improve the understanding of the environmental, health and safety impacts originating from the refining of crude oil and the distribution & use of petroleum products by the industry, authorities, users and other interested parties. In addition to the studies developed by its staff, Concawe also undertakes research in partnership with universities, research institutes and expert consultants.

The Association represents the interests of 38 private Companies operating petroleum refineries in the EU. Members account for almost 95% of EU petroleum refining capacity and more than 75% of EU motor fuel retail sales.

What do we offer?

- Individual Training program, technology and professional skills development
- Responsibility and autonomy in your area of expertise
- A global view and concrete involvement on industry and societal challenges
- International and dynamic multicultural environment
- Competitive salary package complemented with fringe benefits
- Enhanced work life balance (working from home, sliding working hours system etc.)

What do we expect from you?

The role of the Science Associate for LCA & Modelling includes input to specific data analysis and research activities (as detailed underneath) in support of Concawe's Refining into the Energy Transition and Fuels Quality & Emissions Science Executives. Modelling and fuel expertise, as well as familiarity with modelling tools (including LCA-related tools, management of modelling database, etc) are key to this Science Associate position and the work is directly linked to Concawe's activities in the Refining into the Energy Transition and the Fuels and Emissions Management Group.

General Duties and responsibilities

- Develop an in-depth knowledge of the European and global technical issues related to the transition to a low emissions future of the transport sector with special focus on the fields of fuels carbon intensity and vehicle fleet modelling. Specific in-depth studies will be conducted around different key areas for further research.
- Support the development and implementation of the annual technical research plan as agreed with the relevant Management Groups and the Concawe Director, including:
 - Vehicle fleet modelling and carbon intensity/economic analysis (conventional and alternative fuels and powertrains).
 - Well-to-Wheels (WtW) and Life Cycle Analysis (LCA) evaluation, enabling science-based comparisons between different fuels and powertrains.
 - Assessment of different low-carbon technologies and fuels and their potential to reduce CO₂ emissions within the refining industry and the use of their products.
 - Modelling and evaluation of the role and relevance of low-carbon fuels and vehicle technologies (**HEVs, PHEVs and BEVs**), and their rollout into the real economy to meet the emissions targets set by the regulations (current, proposed or foreseen).

- Assistance in the writing and editing of Concawe technical reports, briefing papers, articles etc., on topics related to the field of activity.
- Liaison with external consultants and other stakeholders in the development of the research programmes
- Report progress on his/her activities.
- In addition to the targeted activities described above, it can be expected, that the Science Associate will be involved in related technical and cross-disciplinary projects and other fuels product quality and emissions related activities including organization of and analysis/reporting of market survey data, analysis of emissions data.

What is your professional profile?

- **Education & Experience**
 - A science/engineering background and a proven track record in a Member Company / oil refining industry, consulting firms, research institute, university or similar.
 - Excellent computer skills and experience with XLS-based models and data analysis.
 - Familiarity with Well-to-Wheels and LCA principles and modelling tools/techniques to assess the GHG impact of different technologies, alternative fuels and powertrains.
 - Some familiarity with vehicle fleet (Modelling experience in this field), and an interest in acquiring a more in-depth knowledge and working relationships with those active in these fields.
 - Capacity to quickly learn and understand the fuel and transport industry transition towards net zero by 2050.
- **Skills & Competencies**
 - Relevant postgraduate qualification or PhD
 - Keen interest and awareness of the European institutions decision-making processes for technical issues
 - Good verbal and written English. A team player with the capacity to effectively facilitate technical teams.
 - Good communication skills, both verbal and written
 - Committed to honest and transparent science
 - Self-starter and autonomous in his/her work
 - Permit to work in EU will be considered as an advantage

What is your report line? Reports to the Science Executive Fuels Quality and Emissions

To apply, please send your CV and motivation letter to: recruitment@concawe.eu mentioning “Concawe Science Associate LCA & Modeling” in the subject of your e-mail.

*By applying for this vacancy, you agree that we use your personal data for recruitment purposes only.
All your private information will be deleted from our files after the recruitment process.*