

Position: Research Associate Fuels & Modelling

Start: End January 2020

Application deadline: 22nd November

Concawe is looking for a research associate to support the activities of the Fuels Quality & Emissions Management Group, especially in relation to the JEC Consortium (JRC / EUCAR and Concawe).

Who are we?

Concawe is the science division of an international non-profit making association (European Petroleum Refiners Association aisbl) whose mission is to provide research & technical support to the EU downstream oil refining industry in the study of environmental, health, safety and testing issues relating to the refining of crude oil and the distribution and use of petroleum products, with the aim of improving the understanding of these issues by the industry, authorities, users and other interested parties.

The Association represents the interests of 40 Companies operating petroleum refineries in the EU. Members account for almost 100% of EU petroleum refining capacity and more than 75% of EU motor fuel retail sales. In addition, a wide variety of research is undertaken by Concawe in partnership with universities, research institutes and expert consultants to better understand controls on water use and emissions, the fate and effects of substances used and produced by the sector and the implications of proposed changes in EU legislation.

What do we offer?

- Open-ended contract
- Competitive package complemented with fringe benefits
- DKV health insurance
- International and dynamic multicultural environment

What do we expect from you?

The role of the Research Associate for Fuels & Modelling includes input to specific data analysis and research activities (as detailed underneath) in support of Concawe's Economics & Modelling (Energy & CO₂) and Fuels Quality & Emissions Science Executives. Modelling and fuel expertise is key to this Research Associate position and the work is directly linked to Concawe's activities in the Low Carbon Pathways Joint Group and the Fuels and Emissions Management Group.

General Duties

- 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 Joint Groups and Management Groups and the Science Director, including:
 - Vehicle fleet modelling and carbon intensity/economic analysis (conventional and alternative fuels).
 - Well-to-Wheels (WtW) and Life Cycle Analysis (LCA) activities, enabling science-grounded 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.
 - Assistance in the writing and editing of CONCAWE technical reports, briefing papers, articles etc., on topics related to the field of activity.
 - Potential 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 Research 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 or similar.
- Excellent computer skills and experience with XLS-based models and data analysis.
- Familiarity with Well-to-Wheels and LCA principles and modelling techniques to assess the CO2 impact of different technologies, alternative fuels and powertrains.
- Some familiarity with fuels product quality/specifications (both conventional and alternative fuels), vehicle testing (although detailed experience not essential), vehicle fleet (Modelling experience in this field is desirable but not essential), 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 oil industry issues.

• 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. Direct communication with Member Company and JRC/EUCAR experts and written documentation of results will be an expectation of this project.
- A team player with the capacity to effectively facilitate technical teams.
- Good communication skills, both verbal and written.
- Self-starter and autonomous in his/her work
- Permit to work in EU

What is your report line? Science Executive for Economics & Modelling

To apply, please send your CV and motivation letter to: recruitment@concawe.eu mentioning “ Concawe Research Associate Fuels & Modelling” 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.*