

**Position: Science Executive Fuels
Quality & Emissions**

Type: Open-ended contract

Start: As soon as possible

Deadline for applications: 11th February 2023

The position is based in Brussels, Belgium

The evaluation of renewable and low-carbon fuels, in the frame of the fuel manufacturing industry transition, along with the electrification of transport, is at the core of this Science Executive position and the work is directly linked to Concawe's activities in the Fuels and Emissions Management Group (FEMG) and in the Refining into the Energy Transition Management Group (RETMG).

The Science Executive for Fuels Quality & Emissions coordinates Concawe's activities related to fuel quality, specifications, life-cycle performance in vehicles/vessels including pollutant and GHG emissions and other mobility-related topics in Europe.

Who are we?

- Concawe is the science division of an international non-profit association (The Fuel Manufacturers Association aisbl) whose mission is to provide research and technical support to the EU fuel manufacturing in the study of environmental, health, safety and toxicity issues relating to the refining of crude oil or renewable feedstock, and the distribution and use of petroleum or renewable products. Its goal is to improve the understanding of these issues by the industry, authorities, users and other interested parties.
- The Association represents the interests of 38 Companies manufacturing fuel in the EU. Members account for around 95% of EU fuel manufacturing 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 (pension scheme, hospitality insurance etc.)
- Company car, laptop and mobile phone
- Enhanced work life balance (working from home on Mondays & Fridays from either Belgium or abroad, sliding working hours system etc.)

What would be your activities

General duties:

- Comply with the governance rules of the Association and ensure that the Management Groups and sub-ordinate Special Task Forces (STFs) are aware of these rules;
- Monitor developments within the scientific and regulatory communities with respect to his/her area of expertise;
- Coordinate the development of the Management Group 5-year strategic plan and annual workplan with the Management Group and Concawe Director; implement annual workplan as per Board approval;
- Develop the scope, review proposals and manage the execution of out-sourced projects (including cost control);
- Initiate tenders, facilitate selection of contractors, prepare contracts & monitor technical and progress for approved projects covered under the field of activity;
- Report progress and inform appropriate Management Groups and Scientific Committee on all his/her activities;
- Ensure that Concawe technical reports, briefing papers, articles etc., on topics related to the field of activity are drafted, reviewed and approved for publication in due time;
- Serve as a technical expert and represent our industry in interactions with European and global bodies on technical issues in his/her area of expertise;
- Represent Concawe and the fuel manufacturing industry at conferences, stakeholders' meetings and participate in technical working groups organised by the EU Institutions and other relevant bodies;
- Gain an in-depth knowledge of EU and other relevant institutions decision-making processes related to the technical issues in his/her area of expertise;
- Coordinate as appropriate with FuelsEurope, including active participation in relevant Issue Groups and technical support to advocacy work;

The specific skills/knowledge requirements for the Fuels Quality and Emissions Executive

- A good understanding of the impact of fuel quality on powertrain performance and emissions, with a demonstrated knowledge in one or more specific areas related to this area;

- A broad knowledge of the properties of fuels, their manufacture and distribution, and the regulatory requirements governing their marketing and use;
- A strong background in engine / combustion / aftertreatment technologies;
- A good understanding of statistics: repeatability, interval of confidence, designs of experiments and statistical models;
- Familiarity with Well-to-Wheels principles and modelling techniques to assess the CO₂ impact of different technologies and alternative fuels;
- Familiarity with the related pieces of legislation at EU level (e.g. EN 228 and EN 590, Euro 6/7, FQD, CO₂ standards, RED II/III)
- Some familiarity with modelling tools (modelling experience in this field is desirable but not essential)

The specific job requirements for the Fuels Quality and Emissions Executive:

- Coordinating Concawe's Fuels Quality & Emissions Management Group (FEMG), assisted by the Chair and vice-Chair in developing and executing the FEMG work plan and ensuring compliance with Concawe's guidelines
- Coordinating the project activities of FEMG's Special Task Forces (STFs) including those working on automotive, aviation, marine fuels and gaseous and including leveraging external research programmes;
- Managing Science Associates working on Life-cycle assessment and Fuels & Emissions;
- Providing a focal point within Concawe for the development of industry strategies on technical issues related to fuels, powertrain emissions and general mobility including electrification and ensuring good coordination with other Science Executives – Refining into the Energy Transition, Refining Technology, Health, Air Quality, and related areas;

This Science Executive position will focus on the following main tasks:

1) Fuels quality

- Fuels quality are regularly evolving, due to the evolution of the technologies (e.g. powertrain or refining technologies), of the environmental concerns (e.g. air quality issues), of the market or of the introduction of new feedstock (e.g. renewable fuels). In this context, The Science Executive FEMG will be in charge of coordinating the work of working groups (composed of Member Company's experts) on the following topics:
- Concawe's STFs on Fuels specifications and CEN/TC 19/WG 21 (Gasoline) and WG 24 (Diesel) meetings;
- Concawe's STFs on aviation fuels and Marine fuels;
- Monitoring of fuels quality performed through fuels surveys;
- Development and evaluation of new or alternative analytical techniques;
- Collaboration with industry stakeholders and public authorities to find common ground;

2) Emissions

- Because of concerns on air quality, vehicles and vessels are requested to lower their pollutant emissions. The fuel composition and its properties may have an impact on the related performance and emissions. In this context, the Science Executive FEMG will be in charge of:
- Coordinating Concawe's STFs on Gasoline, Diesel, Advanced combustion, and Gaseous fuels;
- Developing and coordinating research programs evaluating the impact of fuel composition and properties on the performance and the emissions, as well as the impact of new powertrain technologies, new aftertreatment features and partial/full electrification;

3) Low Carbon pathways

- Electrification and alternative low carbon feedstocks will play a key role, progressively replacing oil in the transition towards 2050. These feedstocks will include fuels from biomass residues, waste materials, green/blue hydrogen, potentially associated with recycled CO₂ to form electro-fuels ("e-fuels"). In this context, the Science Executive FEMG will be in charge of:
- Preparing and participating in the ERTRAC (European Road Transport Research Advisory Council) meetings, with a focus on co-chairing the Energy and Environment working group, updating the roadmaps and contributing to the ad hoc working groups;
- Developing and coordinating research programs evaluating the impact of new feedstocks, their origin, their process and their life-cycle GHG emissions, as well as their impact on engine compatibility and emissions;

- Evaluating the impact of different scenarios of partial/full electrification on life-cycle GHG emissions, electricity and fuel demand;

What is your professional profile?

- In depth technical expertise in the field(s) relevant to the specific technical portfolio (see above for specific requirements for the Fuels Quality and Emissions Science Executive);
- Experience and a proven track record in a Member Company, in the fuel manufacturing industry, in the auto-industry, or in a research centre;
- Capacity to quickly learn and understand the fuel manufacturing and transport industry issues;
- Highly organized individual;
- Committed to high-level and transparent science;
- Interest in the transition of the EU industry towards climate neutrality in 2050;
- Keen interest and awareness of the European institutions decision-making processes for technical issues;
- Good negotiation skills and a sense of diplomacy;
- Good communication skills, both verbal and written;
- Ability to think strategically and put technical issues in a broader context;
- Project management skills and managing contracted suppliers;
- Ability to perform in multi-task environment;
- Good command of the English language; an additional language would be an advantage;
- Excellent PC skills (MS Outlook; Word; Power Point; Excel; etc.).

Organisational Fit: Reports to the Concawe Director

The position is based in Brussels (Belgium)

To apply, please send your CV, your bibliography and motivation letter to: recruitment@concawe.eu mentioning "Science Executive Fuels Quality & Emissions" 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.*