1 PhD position for the development of *Yeast-based solutions for sustainable Aviation Fuels* with the MSCA-DN YAF

Additional information

Benefits

YAF DC will be employed according to the rules for DC in MSCA DNs and the general regulations of the host institution. Main features of the open position are:

1. As reported in the MSCA Work Programme, a financial package which includes:
    a. Living allowance.
    b. Mobility allowance.
    c. Family allowance (if applicable).

    Employer costs and other deductions will depend on recruiting host and country. Allowances are gross amounts, which means that all compulsory social security contributions (employer and employee), direct taxes, and any other compulsory deductions under national legislation will be deducted from these gross amounts.
2. Enrolment in a PhD program.
3. Shared research and innovative multidisciplinary and multisectoral training by experts and experienced trainers from two sectors (academia and industry).
4. An international, multidisciplinary and intersectorial, custom developed training program (soft skill courses, targeted workshops, social events and networking) that promotes scientific excellence and exploits the expertise and infrastructure present in the consortium.
5. 2 Secondments at other institutions within the YAF consortium.
6. Opportunities for participation in national and international meetings.
7. Enlarged professional network and improved future scientific career perspective in academia and industry.

Eligibility criteria

Note that MSCA-DN specific eligibility conditions apply:

1. **Mobility rule**. Not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting beneficiary for more than 12 months in the 36 months immediately before the recruitment date.
2. **Doctoral Candidate (DC) definition**. Be — at the date of recruitment — a doctoral candidate (i.e. not already in possession of a doctoral degree).
3. **Be in position of enrolling in a doctoral programme at the country and meet the specific eligibility requirements at the hosting institution**, if applicable.
4. **Other specific criteria of the recruiting host institution listed on the position's description.**

Selection Process

The application process will start on 10th of February 2025 and will end on 17th March 2025 (23:59, Europe/Brussels).

The selection procedure will be open, transparent, merit-based and in line with the Code of Conduct for the Recruitment of Researchers. The institution is an equal opportunity employer and seek a workforce diverse in age, culture, nationality and gender. Candidates will be selected according to the following steps:

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1. Eligibility check. Applications will be reviewed for eligibility based on the criteria listed above under the '*Eligibility criteria*' section.
2. Pre-selection of candidates. Eligible candidates will be ranked based on the submitted documents and shortlisted candidates will be contacted for an online interview. Those not shortlisted will be informed of the result of their application.
3. After the online interviews, candidates will be offered a position or will be informed about the rejection decision.

The outcome of this selection process will be communicated in March 2025. The selected candidate will have 7 days to accept the position.

Selection criteria

1. Adequacy of the candidate's education to the position.
2. Relevant postgraduate work experience.
3. Motivation of the candidate for the position.
4. Effective communication and interpersonal skills (English proficiency).

How to apply

Candidates interested in the position offered can apply by the 28th of February 2025 (23:59, Europe/Brussels).

The application **must include**:

1. YAF Application form filled out and signed.
2. Curriculum Vitae (CV) (max. 3 pages) including relevant education and research experience (including professional experience).
3. Cover letter (max. 2 pages), explaining motivation to apply and relevance of the position for the candidate.
4. Other specific documentation requested by the host institution.

Submission

For the submission of the documentation please refer to the instructions indicated on the position below.

1. Only complete applications will be accepted.
2. The individual DC project is set to start in April/May 2025 (or earlier if possible for the host institution and the selected candidate).

For any other enquiries, please send an email to info@yaf-project.eu.

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Individual Research Project

DC10: Modelling, optimization and sustainability assessment of alternative systems for SAF production from waste	
Host Institution	IMDEA Energy (Spain) – Supervisor: Dr. Diego Iribarren
Duration	Contract until the project end date: 30/11/2027
Objectives	Evaluate the feasibility of different pathways converting biowaste into SAF, hence supporting decision-making processes in the field. Develop adaptative models of the different conversion routes, aligned with the scope of the YAF network, and integrate them into a process simulation. Perform technoeconomic analysis and life cycle sustainability asesssment of the considered systems. Optimize the considered systems based on sustainability results. Interpret the results from a sustainability perspective and benchmark them against reference systems.
Academic Secondment	3 months at ABO (Finland) Supervisor: Dr. Dmitry Murzin
Non-academic Secondment	6 months at BBEPP (Belgium) Supervisor: Dr. Evelien Uitterhaegen
Specific submission & eligibility criteria of the Host Institution	**Specific requirements** • BSc degree in Chemical, Environmental, Energy or Industrial Technology Engineering, or equivalent. • MSc degree in Chemical, Environmental, Energy or Industrial Technology Engineering, or equivalent. The selected candidate should be in possesion of a MSc degree (or equivalent) by the date of recruitment. **Merits to value** • Knowledge of process modelling and simulation; knowledge of life cycle (sustainability) assessment; knowledge of technoecnomic analysis; scientific publications in the field of process simulation and/or life cycle assessment; participation in research projects on systems analysis. **Submission procedure** • Documentation: revise 'How to apply' section. In addition to that, candidates will be required to send BSc Diploma and proof of being in position of enrolling in a doctoral programme at the date of recruitment (MSc Diploma, proof of enrollment in a MSc Program indicating estimated date of finalisation or equivalent). • Applications should be submitted exclusively via the job portal of IMDEA Energy: https://jobs.energy.imdea.org/

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