



# UNIVERSITÀ DEGLI STUDI GUGLIELMO MARCONI



**Oggetto: Procedura pubblica di selezione per il conferimento di un servizio di consulenza.**

**NATIONAL RECOVERY AND RESILIENCE PLAN (NRRP), MISSION 2 "GREEN REVOLUTION AND ECOLOGICAL TRANSITION", COMPONENT 2 "RENEWABLE ENERGY, HYDROGEN, NETWORK AND SUSTAINABLE MOBILITY", INVESTMENT 3.5 "HYDROGEN RESEARCH AND DEVELOPMENT", IN IMPLEMENTATION OF THE DECREE OF THE MINISTER OF THE ENVIRONMENT AND ENERGY SECURITY OF DECEMBER 13, 2024, NO. 438**

**Progetto di Ricerca "Biogas Electrically-Managed Membrane Assisted Reforming System For Clean Hydrogen Production - BEMARS" - RSH2C\_000010 - Cup: F59J25000420004**

## **Article 1 –**

### **Subject Matter**

The Università degli Studi Guglielmo Marconi, with registered office in Rome, Via Plinio 44, 00193 – Tax Code/VAT No. 07154361005, beneficiary of the grant referred to in the Decree of 30 October 2025, through the funding of the project “Biogas Electrically-Managed Membrane Assisted Reforming System for Clean Hydrogen Production – BEMARS” – RSH2C\_000010 – CUP: F59J25000420004, financed under the National Recovery and Resilience Plan (PNRR), Mission 2 “Green Revolution and Ecological Transition”, Component 2 “Renewable Energy, Hydrogen, Grid and Sustainable Mobility”, Investment 3.5 “Hydrogen Research and Development”, hereby launches a public selection procedure for the awarding of a consultancy service concerning the following topics:

- **Activities related to Project OR2: Kinetic studies (Industrial Research/IR)**
- **Activities related to Project OR3: Advanced CFD simulations (Industrial Research/IR)**

## **Article 2 –**

### **Specifications of the Assignment**

The Università degli Studi Guglielmo Marconi, within the framework of the project “Biogas Electrically-Managed Membrane Assisted Reforming System for Clean Hydrogen Production – BEMARS” – RSH2C\_000010 – CUP: F59J25000420004, Annex 05, hereby launches a public selection procedure for the awarding of a consultancy service related to the following Specific Objectives:

Via Plinio 44 - 00193 Roma  
Tel. +39 06 377251  
www.unimarconi.it  
info@unimarconi.it

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**Specific Objective (OR) 2: Kinetic Studies (Industrial Research/IR).** Within OR2, the study of commercial catalysts for steam reforming of biogas/biomethane/biosyngas and of hydrogen separation membranes in laboratory microreactors is foreseen, with the aim of determining reaction kinetics and hydrogen permeation kinetics, to be provided for activities under OR3. The consultancy activity includes the preparation of a report supporting the expected results of OR2, as specified in the technical specifications.

**Specific Objective (OR) 3: Advanced CFD Simulations (Industrial Research/IR).** Within this OR, 3D CFD simulations of the fluidized bed reactor developed in the BEMARS project will be carried out, with integration of chemical kinetics related to steam reforming reactions of biogas/biomethane/biosyngas and in-situ separation of produced hydrogen via membranes. The reaction kinetics implemented will be those obtained at laboratory scale within the framework of OR2.

## Article 3

### Eligibility Requirements

All entities may participate in the procedure, provided that they meet the following admission requirements.

1. **Professional suitability requirement**, consisting in this specific case of registration in the Register of the Chamber of Commerce, Industry, Crafts and Agriculture (CCIAA), or in the register of provincial craft commissions, or alternatively, entities registered abroad for the performance of activities consistent with those covered by this assignment.
2. **Technical and professional capacity requirements**, consisting of proven experience in technological innovation activities relating to kinetic studies and advanced CFD simulation projects, with characteristics similar to those covered by this project, in accordance with the requirements described in the technical specifications.
3. **Specific provisions/requirements/conditions**, aimed at guiding the technical and administrative implementation of the activities of the executing entity, in order to ensure compliance with:
  - a. PNRR requirements and all conditions associated with the funding measure to which the project is linked
  - b. the “Do No Significant Harm” (DNSH) principle;
  - c. the transversal principles of the PNRR, including: gender equality, protection and enhancement of young people, reduction of territorial disparities, and accessibility.

The requirements referred to in points 1 and 2 must be declared using the forms prepared by the Università G. Marconi, namely “Annex 1 – Application Form” and “Annex 2 – Technical Report and Cost Details”. The requirements under point 3 must be declared by signing the forms prepared by the Università G. Marconi, namely “Annex 3 – DNSH Declaration” and “Annex 4 – Additional





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Declarations”. Failure to meet even one of the required conditions shall result in exclusion from the procedure. It is specified that the above requirements must be met by the participant at the time of submission of the application and must remain valid throughout the entire procedure until the signing of the contract. Furthermore, in Annex 4 – Additional Declarations, participants must declare that the company:

- is not subject to insolvency proceedings and is not in a state of bankruptcy, voluntary liquidation, receivership, composition with creditors, or any equivalent situation under applicable law;
- has not been convicted under Legislative Decree 231/2001;
- has legal representatives, directors (with or without representative powers), and shareholders for whom there are no grounds for prohibition, suspension, or disqualification under Article 67 of Legislative Decree 159/2011 (Anti-Mafia Code and related preventive measures). The subjects subject to anti-mafia verification are those indicated in Article 85 of Legislative Decree 159/2011;
- has duly fulfilled social security obligations and complies with occupational health and safety regulations pursuant to Legislative Decree 81/2008 and subsequent amendments;
- has complied, at the time of submission of the application, with obligations concerning the employment of persons with disabilities under Law 68/1999, or is not subject to such obligations due to its size;
- is not in any actual or potential conflict of interest with the Università G. Marconi;
- complies with all other applicable national and European legal requirements.

## Article 4 –

### Terms and Conditions for Submission of Tenders

The Application and all related documentation must be submitted exclusively via Certified Electronic Mail (PEC) to the following addresses: [progetti@pecunimarconi.it](mailto:progetti@pecunimarconi.it) and [i.reggiani@unimarconi.it](mailto:i.reggiani@unimarconi.it) (or via ordinary email in the absence of PEC for foreign entities).

Tenders submitted through any means other than those specified in this invitation letter shall not be considered valid. The Application, Technical Report, and declarations must be signed with a digital signature or other qualified electronic signature, or with a simple signature in the absence of a digital signature for foreign entities. The validity of transmission and receipt of PEC messages / ordinary email (in the absence of PEC) is certified respectively by the acceptance receipt and the delivery receipt. The Application and related documentation must be received no later than 10:00 a.m. on **29/05/2026**, under penalty of non-acceptance.

The documentation must include:

Annex 1 – Application Form

Annex 2 – Technical Report and Cost Details

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Annex 3 – Declaration certifying compliance with eligibility requirements and the DNSH principles

Annex 4 – Additional Declarations

## Article 5 –

### Economic Value of the Assignment

In line with the budget allocated to the BEMARS Project, the total value of the consultancy service is €45,000 VAT included. The economic operator may submit a technical and financial offer for one or more of the following services:

- **Service 1 – Evaluation of palladium membrane performance**  
Maximum amount: €5,000  
Reference: Specific Objective (OR) 2 – Kinetic studies (Industrial Research – IR)
  
- **Service 2 – Characterization of solid materials and analysis of sorbents for contaminants**  
Maximum amount: €15,000  
Reference: Specific Objective (OR) 2 – Kinetic studies (Industrial Research – IR)
  
- **Service 3 – Analysis of reforming and membrane configurations**  
Service 3.1 €10,000 – OR 2 – Kinetic studies (IR)  
Service 3.2 €15,000 – OR 3 – Advanced CFD simulations (IR)

The offer may therefore concern a single service, multiple services, or the entire set of activities described above. The payment shall be made in two instalments as follows:

- an advance payment equal to 60% of the total amount shall be paid within 30 days from the signing of the contract;
- the balance payment, equal to 40% of the total amount, shall be paid within 30 days from the submission of the final technical reports related to the results of the ORs, and in any case no later than 30 June 2026.

## Article 6

### Duration of the Assignment

The consultancy contract shall set the start date of the service as the date of signature, and shall set the end date as the full completion of the results related to each Specific Objective (OR) included in the assignment, and in any case no later than 30 June 2026.

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## Article 7

### Technical Report and Cost Details

Cost details and technical and professional capacity must be specified by completing the relevant “Annex 2” form, which shall include information on relevant experience gained over the past five (5) years for the purposes of the assignment, as well as a brief description of the professional figures involved in the consultancy activities covered by the assignment. The Università G. Marconi reserves the right to award the services referred to in this invitation letter even if only one application is received or remains valid, provided that it is deemed suitable, at its sole discretion. The Università G. Marconi also reserves the right not to proceed with the award if no application is considered suitable in relation to the subject of the assignment, or, in the event of an award decision having been made, not to sign the contract, without incurring any liability and/or obligation to compensate or indemnify, including under Articles 1337 and 1338 of the Italian Civil Code.

## Article 8

### Evaluation Procedure

After the deadline for submission of tenders has expired, a Commission will be appointed to evaluate the offers and the submitted documentation. In particular, it will:

- verify the regularity and completeness of the administrative documentation submitted by the economic operators;
- communicate the outcome of the verification process and provide the list of admitted and excluded operators.

The Commission shall proceed with the assessment of technical and professional capacity.

## Article 9

### Award Criteria

The Commission shall proceed with the award of the contract, which shall become effective only after verification of compliance with the required eligibility criteria. The service covered by this assignment shall be awarded to the bidder demonstrating the best technical capacity in relation to the subject matter of the assignment and the requirements defined in the technical specifications.

## Article 10

### Duration of the Selection Procedure

This selection procedure shall conclude with the adoption of the final award decision. Following the notification of the award and prior to the signing of the assignment contract, the successful bidder shall be required to sign the contract within seven (7) days.





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Failure to comply with this deadline, as well as any delay in the signing of the contract or in the commencement of its execution attributable to the economic operator, shall constitute grounds for exclusion from the procedure or termination of the contract for breach, which shall be declared by the University without delay and shall operate by law.

## Article 11

### Procedure Manager

The Sole Responsible Person (RUP) appointed for this assignment is Prof. Enrico Bocci – [e.bocci@unimarconi.it](mailto:e.bocci@unimarconi.it).

## Article 12

### Communications and Exchange of Information

All communications with the University must be carried out via Certified Electronic Mail (PEC), pursuant to Legislative Decree No. 82/2005, or via ordinary email exclusively for foreign economic operators intending to respond to the call for tenders to [i.reggiani@unimarconi.it](mailto:i.reggiani@unimarconi.it).

## Article 13

### Confidentiality

Confidential Information is defined as all information provided in tangible or intangible form, including, by way of example but not limited to, acts, documents, drawings, product samples, data, analyses, reports, studies, graphical representations, technical outputs, evaluations, reports relating to technology and production processes, models, and plans, communicated by either the beneficiary or the Università Guglielmo Marconi within the scope of the activities covered by this contract, including any results, and expressly identified as confidential/restricted. The confidential nature of such information must be clearly indicated by the wording “confidential”, “restricted”, or any similar label. The specifically designated representatives of the Università G. Marconi shall act as contact persons for confidential and restricted information. The Receiving Party undertakes to maintain confidentiality and not to disclose to third parties the content of any Confidential Information without the prior written consent of the Disclosing Party. The Receiving Party further undertakes to handle and protect Confidential Information with the highest level of care and, in any case, to apply at least the same level of protection it applies to its own confidential information of a similar nature. The confidentiality obligations set forth in this contract shall remain in force for a period of five (5) years from the date on which each item of Confidential Information is disclosed to the Receiving Party. The Receiving Party shall limit access to Confidential Information within its organisation solely to those individuals who need to know such information for the performance of their duties.

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## Article 14

### Data Protection

The processing of personal data shall be carried out in accordance with Regulation (EU) 2016/679 (General Data Protection Regulation – GDPR) and Legislative Decree No. 196/2003 and subsequent amendments (“Personal Data Protection Code”) by the Università Guglielmo Marconi, in its capacity as Data Controller, for the purposes of managing the assignment procedure, evaluating the merit of submitted offers, monitoring the services, and reporting. Reporting data shall be transmitted to the Ministry of Environment and Energy Security and the Ministry of Economy and Finance through the REGIS platform, which, with regard to personal data processing, shall act as independent Data Controllers in order to fulfil institutional functions and legal and contractual obligations related to the implementation of this call.

## Article 15

### Publication

This call for applications shall be published in the Official Register of the University and on the dedicated website section, simultaneously with its issuance. The publication date marks the beginning of the applicable submission deadlines.

Rome, 15/05/2026

Signature of Legal Representative

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