T.I.M.E. Projects 2023-2024

Top International Managers in Engineering

Application Form

*Deadline for submission: **January 19th, 2024***

*Please submit the completed form to: **gwenaelle.guillerme@time-association.org***

Applications must be submitted by <u>e-mail only</u>. You are required to attach a scanned copy of a <u>Letter of Support</u> signed by the Head of your Institution.

Please remember that T.I.M.E. promotes international cooperation and therefore only applications from consortia of <u>at least three</u> T.I.M.E. members in <u>three different countries</u> can be accepted.

*You will be notified of the results of the selection after the Advisory Committee meeting on **February 2023**. Projects run from February 2023 to January 2024.*

Title of Project
Towards more Sustainable university campuses

Acronym (if any)
SusTIMEable-Campus

Details of the Applicant	
Name of Institution(s)	Universitat Politecnica de Valencia (UPV) (Spain)
Faculty/Department/Office	School of Industrial Engineering (ETSII) / Applied Thermodynamics department
Contact Person/s and Details	Prof. Carla Montagud Montalvá carmonmo@iie.upv.es Camino de vera, sn. 46022 Valencia +34 96 387 99 10

Summary of the Project (max. 2000 characters)

In light of the prevailing climate emergency and the pressing need for decarbonization, universities must assert their leadership by setting an example of good practice.

Particular emphasis must be placed on their role in training graduates who will assume responsibility for both mitigating and adapting to climate change. In this context, the various training programs for sustainability learning and innovative educational initiatives on university campuses are essential. These activities are important not only from an educational standpoint but also because university campuses could serve as a testing ground for innovative solutions that could be transferred to the cities where they are located. It is worth noting that the European university campuses of the project participants are located near one of the 100 cities, KTH(Stockholm), ULB (Brussels), TUDELFT (Amsterdam), WUST (Wroclaw), ECM (Marseille), and UPV (Valencia), selected by the EC to become climate neutral by 2030. Strong synergies will be established among these universities, cities and other stakeholders' as a result of SusTIMEable- Campus. Beyond European borders, and with the aim of increasing the international impact, the consortium counts with PolyMTL (Montreal).

Multidisciplinary teams made up of students from various engineering, design and planning disciplines (industrial, chemical, mechanical, energy, architecture, etc.) and faculty from different departments will

be involved in the project.

The planned actions cover technical challenges as well as aspects of social innovation, inclusion and communication, aimed at promoting more sustainable development. It aims to leverage ongoing activities at the participating universities through hackathons, invited guest lectures, seminars and technical visits. The main objective is to train future engineers who will help cities overcome current structural, institutional and cultural barriers to achieve climate neutrality by 2030.

Reason for applying for T.I.M.E. funding (max. 2000 characters)

Following the approval and implementation of the strategic plan of the Universitat Politècnica de València (UPV) for 2023-2027, which relies on five major pillars, sustainability, internationalization, relevance, vitality, and excellence, the need arose to undertake different actions both at the level of R&D and innovative training and transfer to students.

As an industrial engineering school within a technical university, we must create specialized learning routes in this regard so that our top students can pursue prestigious international employment with a solid engineering foundation. In this situation, creating sustainable learning activities, such as project-based learning for interdisciplinary teams working to solve the problems society demands today in the context of the climate emergency, is essential. Since students spend a significant amount of time on campus during their studies, offering best-practice case studies in the form of multidisciplinary challenges for enhancing sustainability on campus could serve as a suitable framework to do so.

There are few institutions with experience in project-based learning. Since each of these 7 universities participates in sustainability learning initiatives and other programs for enhancing campus sustainability, there is clear added value for academic and research collaboration. In keeping with T.I.M.E.'s mission, the project's results will have an impact on research, education, and society, not just on campus but also beyond it, as knowledge will be transferred to the cities where universities are situated. Moreover, it would make T.I.M.E. more noticeable and appealing.

Lastly, since the networking and outcomes will be available to all T.I.M.E. members upon project completion in January 2025, it will ease the definition of project proposals to receive funding from the EU in the form of joint collaborative projects in HORIZON EUROPE such as LIFE projects for various university campuses, or ERASMUS+.

Expected outputs of the project

Main outputs:
   a) A framework for planning multidisciplinary design projects involving students from several universities that take sustainability concerns into consideration will be developed.
   b) Strengthening of student-professor collaboration across university groups on a "real-world" application problem/challenge, utilizing exchange students and professors and capitalizing on the internationalization of the participating universities (KTH, UPV, TU Delft, ECM, ULB, WUST, PolyMTL).
   c) To improve the rapport among academics working on the same subject—sustainable learning and the creation of decarbonization plans for smart and climate-neutral cities and university campuses. This will also help to facilitate future, brief professor exchanges on the subject.

This project will serve as a foundation for future challenges related to the SusTIMEable-Campus project.

Target group/s and expected impact

-   **Academia**: the joint T.I.M.E. project involving KTH, TU Delft, ECM, ULB, WUST, PolyMTL and UPV will strengthen networking and add value. Building on the outcomes of the previously funded project SusTIMEability-lab, former participants (KTH, UPV, TU Delft, and ECM) have decided to continue collaborating in the SusTIMEable-Campus project. The consortium has been extended to include other partners who have expressed interest in contributing added value, such as ULB, WUST, and PolyMTL. Special attention will be given to replicating and/or extending it in future editions to continue the activities initiated in the current SusTIMEable-Campus project. Additionally, facilitating interaction between students and their supervisors will significantly

increase mobility among these institutions, thereby enhancing the efficiency of T.I.M.E. membership.

- **Education**: The project aims to help master's degree students in mechanical, energy, chemical, industrial engineering, building technology, and architecture, as well as academic staff of these programs. It also includes students involved in double degree programs. The project addresses a significant gap in teaching decarbonization strategies in buildings and cities. The results of this project could contribute to the development of teaching materials on this topic. It will be an excellent opportunity for students to enhance their skills and knowledge.
- **Research:** It will strengthen networking activities for universities, both within and outside of the T.I.M.E. membership. For example, TU Delft is involved in this project and will share the results and establish synergies with others.
- **Society:** all project activities will involve the final users, who are members of the university community and citizens of the cities where the university campuses are located. The knowledge gained as a result of the SusTIMEable-Campus project will be transferred to the cities where the universities are located. Specifically, Valencia, Marseille, Amsterdam, Wroclaw, Brussels, and Stockholm are among the 100 cities selected by the European Commission to become carbon neutral by 2030. The SusTIMEable-Campus project would add value by establishing synergies and sharing knowledge to aid in the decarbonization of cities. At UPV, both the city and the campus share the goal of achieving carbon neutrality by 2030.

Sustainability of the programme

The sustainability of the project will be ensured from different perspectives.
- **Environmental sustainability.** Meetings and discussions should preferably take place via video conference. Travel will be conducted sustainably, and any remaining carbon emissions will be offset. Events will be organized sustainably, with a focus on low-carbon food and sustainable local transport, with efforts made to minimize the carbon footprint associated with international mobility. The project will track its carbon emissions as a learning objective for future EU projects.
- **Economic Sustainability.** This project aims to provide guidance for future Erasmus programs and become self-sustaining within a year, with the initial support of the T.I.M.E. association. This initiative is aligned with the goal of making the campus more sustainable and climate-neutral by 2030. It may receive support from universities and municipalities through collaboration agreements in the form of chairs or other similar frameworks. For example, consider the binomial agreement between the city of Valencia and UPV, and the chair of energy transition in cities (CATENERG, https://catenerg.webs.upv.es/en/home-2/) which is attached to the School of Industrial Engineering (ETSII) at UPV. Additionally, Erasmus+ would support staff and student mobility whenever possible.
- **Social Sustainability:** to make sure that participants with restricted resources—whether time, ecological, financial, or due to any supervening cause—have an equal opportunity to attend the workshop, a final joint synergic event will be organized in a hybrid format, both online and in person. Whenever feasible, the project's findings will be published in Open Access publications to ensure equitable access to its findings. The SusTIMEable-Campus project initiatives will be disseminated to the scientific community and other stakeholders, including industry and the city's innovation ecosystem, through professional and academic social networks.

Specific deliverables

1. Hackathon: a competition in which a multidisciplinary challenge will be proposed to students on the decarbonization of university campuses and its possible replicability in the cities where these campuses are located. This activity will take place at UPV (Spain) and will involve students and professors in the form of multidisciplinary teams (2nd half of September 2024- October 2024)
2. Technical visits to companies/institutions committed to sustainability. At least one technical visit will take place in Valencia when students come to UPV for participating in the hackathon (2nd half of September 2024- October 2024). Additional technical visits are foreseen at any time along the duration of the project for the students of the other universities participating in the project, and preferably before November 2024. Each university would make a different technical visit. Then, 1-2 selected students could be invited and financed by the T.I.M.E. project to spend 2-3 days at one of the partner institutions and participate in the visit as well.

3. Invited lectures / seminars: each university will carry at least one invited lecture or open seminar which will be offered to the target groups in hybrid format (in person and online). They will take place in person in each campus (KTH, UPV, TU Delft, ECM, ULB, WUST, PolyMTL) and students from the other university members of the consortium will be invited to follow it online (during the academic course, anytime from January-February 2024 until June-July 2024)
4. Joint synergic event where both the results of the Hackathon and the rest of SusTIMEable-Campus project initiatives will be shared (September-October 2024)
5. Joint open access publication to be submitted at the end of the project (January 2025).

Professors' mobility would be financed by the Erasmus STA/STT mobility program whenever it is possible.

Total duration of the project

12 months, from February 2024 to January 2025.
The planned organization of the activities is (M1: February 2024 – M12: January 2025):
- M1-M2 Roundtable with members to get coordinated on the different activities to be carried out and eventual adjustment of the planning of activities (February- March 2024).
- M3-M9 Invited lectures and/or dedicated seminars (April– October 2024).
- M8-M9: Hackathon (September- October 2024).
- M8-M11: Technical visits (September-December 2024).
- M9-M11: Presentation of project results in a joint synergic event. (October-November 2024)
- M11-M12 (December 2024- January 2025): Analysis of results and preparation of a joint open access publication.

Planned budget		
Hackathon organization and promotion	1,500 €	
Presentation of project results in a joint synergic event (October-November 2024 (organization, promotion materials, etc)	2,000 €	
Joint open access publication to be submitted at the end of the project in January 2025 (publication fee)	2,000 €	
One technical visit per institution: (€ 500 per institution for travel expenses to destination)	3,500 €	
Two students per partner to participate in activities and to attend the technical visit in another European institution	12,000€	
Total	21,000€	

Requested financial support from T.I.M.E.

10,000€

Other sources of funding

Erasmus Mobility grants will be used extensively where possible.
- ETSII (UPV) own funding for selected students to attend the final workshop: 6,000 €
- In-kind contribution (professors and researchers' time dedication to the project): UPV: 6,000 €; KTH: 5000 €; ECM: 6000 €; TU Delft: 6,000 €; ULB: 5,000 €; WUST: 5,000 €; PolyMTL: 5,000 €
- BIP (Erasmus 2023-1-ES01-KA131-HED-000125722) project coordinated by UPV (project leader) with title *Blended intensive programme for achieving climate neutrality in European cities by 2030* (BIPNEUTRALCITIES), effective from the 1st of June, 2024 to the 31st of July, 2025.

  • UPV budget for the BIP: 6000 €.

  • ULB, KTH and WUST will use BIP funds for facilitating students' mobility to participate in the Hackathon and technical visits that will take place in Valencia (at least 6 students from each institution will travel to Valencia in M8-M9 (September- October 2024).

Members of the consortium
T.I.M.E. Members
1. Universitat Politècnica de València (UPV) (Project Leader)
2. KTH Royal Institute of Technology in Stockholm (KTH) (Sweden)
3. École centrale de Marseille (ECM) (France)
4. Université libre de Bruxelles (ULB) (Belgium)
5. Wrocław University of Science and Technology (Poland)
6. Polytechnique Montréal (PolyMTL) (Canada)
Other members:
7. Delft University of Technology (TU Delft) (The Netherlands)
Key Staff (Name, Position, E‑mail)

At least one academic representative of each member of the consortium is listed:

Universitat Politècnica de València (UPV)‑ (Project Leader)
- Carla Montagud Montalvá, Associate Professor, Deputy director of sustainable development at ETSII, Email: carmonmo@iie.upv.es
- Javier Sanchis Sáez, Full Professor, Deputy Director of International Relations at ETSII (UPV), Email: jsanchis@isa.upv.es
- Ángel Sapena Bañó, Associate Professor, Deputy Director of Chairs, Entrepreneurship and Spontaneous Generation at ETSII (UPV), Email: asapena@die.upv.es
- Jose Luis Vivancos Bono, Full professor, Engineering Projects Dept, ETSII (UPV), E-mail: jvivanco@dpi.upv.es.

KTH Royal Institute of Technology (KTH)
- Hatef Madani Larijani, Associate professor, Head of division, Unit of Applied Thermodynamics And Refrigeration, KTH, E-mail: hatef.madani@energy.kth.se
- Francisco Beltrán, Researcher at the Unit of Applied Thermodynamics And Refrigeration, KTH, Email: fbeltran@kth.se

École Centrale de Marseille (ECM)
- Audrey Soric, Full professor, École Centrale de Marseille, E-mail: audrey.soric@centrale-marseille.fr
- Vincent Merval, Full professor, Program Manager Engineer, École Centrale de Marseille, E-mail: vincent.merval@centrale-med.fr

Université libre de Bruxelles (ULB) (Belgium)
- Pierre Lambert, Professor and Rector Advisor for Research in CIVIS– Vice Dean International Relations, TIPs Department, Ecole polytechnique de Bruxelles, ULB, Email: pierre.lambert@ulb.be
- Alessandro Parente, Full professor, Unité de recherche Aéro-Thermo-Mécanique (ATM), Ecole polytechnique de Bruxelles, ULB, E-mail: alessandro.parente@ulb.be.

Wrocław University of Science and Technology (Poland)
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- Joanna Jablonska, Vice-Dean for Research and International Cooperation, WUST, E-mail: joanna.jablonska@pwr.edu.pl.
- Marta Rusnak, Researcher, Head of the Interdisciplinary Eye-Tracking Laboratory LET's GO, Faculty of Architecture, WUST, E-mail: marta.rusnak@pwr.edu.pl.
- Agnieszka Szumilas, Researcher, Faculty of Architecture, WUST, E-mail: agnieszka.szumilas@pwr.edu.pl.

Polytechnique Montréal (PolyMTL) (Canada)
Owen Waygood, Full professor, Department of Civil, Geological and Mining Engineering, (PolyMTL), E-mail: owen.waygood@polymtl.ca.

Delft University of Technology (TU Delft)
- Andy van den Dobbelsteen, Full professor of Climate Design & Sustainability, Faculty of Architecture and the Built Environment, and Sustainability Coordinator of TU Delft, E-mail: A.A.J.F.-vandenDobbelsteen@tudelft.nl
- Monika Roeling, Researcher sustainability in education TU Delft, Faculty of Architecture and the Built Environment, E-mail: M.M.Roeling@tudelft.nl

Check List

· *Attach a signed Letter of Support from the Head of the Applicant Institution* ·

Send this form and supporting documents by e-mail only to:

gwenaelle.guillerme@time-association.org

THE DEADLINE FOR THE SUBMISSION OF APPLICATIONS IS JANUARY 19th 2024

Subject: *Letter of Support for the Project SusTIMEable-campus coordinated by the School of Industrial Engineering, at Universitat Politecnica de València,*

The object of this letter is to inform you that I fully support, as Head of the Applicant Institution, the proposal submitted in the context of the T.IM.E. Call for Projects 2023-2024 by Prof. Carla Montagud Montalvá (School of Industrial Engineering, ETSII), whose subject is 'Towards more Sustainable university campuses'.

In case that the project is selected, The School of Industrial Engineering (ETSII) will support all the activities and events to be carried out in the project.

We thank you very much for the positive impact of the T.I.M.E. projects on the internationalization of our University.

Best regards,

ANGEL|
ORTIZ|BAS

Digitally signed by
ANGEL|ORTIZ|BAS
Date: 2024.01.16
14:46:53 +01'00'

Ángel Ortiz Bas
Director of the School of Industrial Engineering (ETSII)
Universitat Politècnica de València.

T.I.M.E. Association

T.I.M.E. Top International
Managers in Engineering

T.I.M.E. Call for Projects 2024_2025

Application Review Form

Project applications are assessed on their own merits, and may or may not be accepted by the Advisory Committee. Your role is vital, as it gives guidelines to the A.C. in making its decisions. Please assess each application anonymously, against the criteria stated in the Call for Projects and restated below. You are reminded of the overall priorities (key objectives):

- Promotion of international education's role and benefits to higher education institutions, students, researchers, teaching staff, and companies;
- Strengthening academy-industry partnerships;
- Short study[1] (Summer school proposals are eligible for T.I.M.E. funding if they involve a partnership between EU and non-EU members, or if the Project coordinator of the summer school is a non-EU member) **and research programs:**

There are five specific criteria for assessment. Please grade each criterion on a scale from 0 to 4, as follows: 0 – poor; 1 – weak; 2 –average; 3 – good; 4 – very good. The aggregate of the grades you assign will give an overall grade out of 20.

Thank you once again for offering your help with this process. The reviews are anonymous and you should not write your name on the form. Once you have finished both assessments, please date and send them in PDF format by e-mail to:

gwenaelle.guillerme@time-association.org

Project Title: Towards more Sustainable university campuses

Coordinating Institution (Applicant): Universitat Politecnica de Valencia (UPV)

Grading

1. **Quality of international cooperation and impact:**
   Grade (out of 4) _____4_____ (from 0: poor to 4: very good)

   Comment/s:

2. **Contribution to the visibility and attractiveness of T.I.M.E.:**
   Grade (out of 4) _____3_____ (from 0: poor to 4: very good)

Comment/s :

3. **Contribution to the key T.I.M.E. priorities (see above):**
   Grade (out of 4) _____3_____ (from 0: poor to 4: very good)

   Comment/s

   _____

4. **Originality and innovative approach:**
   Grade (out of 4) _____4_____ (from 0: poor to 4: very good)

   Comment/s

5. **Quality of work plan, agenda and feasibility:**
   Grade (out of 4) _____4_____ (from 0: poor to 4: very good)

   Comment/s

   Aggregate Grade (out of 20) _____18_____

   Recommendations (if any):

   Date: Feb. 7, 2024

   Please scan this completed form and return it (e-mail only) <u>no later than February 9ʰ 2024 at 8 p.m. Paris time (GMT+1)</u> to:

   <u>gwenaelle.guillerme@time-association.org</u>

   ## THANK YOU FOR YOU HELP !

   <u>Reminder:</u> The assessment process is anonymous. Do not put your name, and not inform anyone else that you have reviewed this project. Strictly confidential.

   <u>Advice:</u> Please assess the project on its own merits. In all cases, refer to the key objectives (overall priorities) mentioned above on Page 1.

   <u>Information:</u> The T.I.M.E. Advisory Committee, meeting on February 29th next, will decide, based on your assessments, which projects (if any) to fund. You will be informed of the outcomes of the selection process thereafter.

   Gwenaëlle GUILLERME
   Secretary General – T.I.M.E. Association
   January 20th 2024.

T.I.M.E. Association

Top International
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T.I.M.E. Call for Projects 2024_2025

Application Review Form

Project applications are assessed on their own merits, and may or may not be accepted by the Advisory Committee. Your role is vital, as it gives guidelines to the A.C. in making its decisions. Please assess each application anonymously, against the criteria stated in the Call for Projects and restated below. You are reminded of the overall priorities (key objectives):

- **Promotion of international education's role and benefits to higher education institutions, students, researchers, teaching staff, and companies;**
- **Strengthening academy-industry partnerships;**
- **Short study[1]** (Summer school proposals are eligible for T.I.M.E. funding if they involve a partnership between EU and non-EU members, or if the Project coordinator of the summer school is a non-EU member) **and research programs:**

There are five specific criteria for assessment. Please grade each criterion on a scale from 0 to 4, as follows: 0 – poor; 1 – weak; 2 –average; 3 – good; 4 – very good. The aggregate of the grades you assign will give an overall grade out of 20.

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gwenaelle.guillerme@time-association.org

Project Title: Towards more Sustainable university campuses (SusTIMEable-Campus)

Coordinating Institution (Applicant): Universitat Politecnica de Valencia (UPV)

Grading

1. **Quality of international cooperation and impact:**
   Grade (out of 4) 4 (from 0: poor to 4: very good)

   Comment/s: The project showcases outstanding international cooperation among universities across Europe and Canada, focusing on sustainability and decarbonization of university campuses. It leverages a broad network to make a tangible impact on climate neutrality goals.

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2. **Contribution to the visibility and attractiveness of T.I.M.E.:**
   Grade (out of 4) 4 (from 0: poor to 4: very good)

   Comment/s : By addressing critical sustainability challenges and establishing strong links between academia and urban sustainability efforts, the project significantly boosts T.I.M.E.'s visibility. Its innovative approach to sustainability education and research contributes to T.I.M.E.'s attractiveness.

3. **Contribution to the key T.I.M.E. priorities (see above):**
   Grade (out of 4) 4 (from 0: poor to 4: very good)

   Comment/s: Aligns perfectly with T.I.M.E.'s emphasis on sustainability, international collaboration, and the development of innovative educational initiatives, directly contributing to the network's strategic priorities.

4. **Originality and innovative approach:**
   Grade (out of 4) 4 (from 0: poor to 4: very good)

   Comment/s : The project's focus on making campuses a testbed for sustainable solutions that could be applied to cities is both original and innovative, providing a practical approach to climate neutrality.

5. **Quality of work plan, agenda and feasibility:**
   Grade (out of 4) 4 (from 0: poor to 4: very good)

   Comment/s: The project plan is robust, with clear milestones and a diverse range of activities.

   Aggregate Grade (out of 20) 20

   Recommendations (if any):

   Date:

   Please scan this completed form and return it (e-mail only) <u>no later than February 9^h 2024 at 8 p.m. Paris time (GMT+1)</u> to:

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Gwenaëlle GUILLERME
Secretary General – T.I.M.E. Association
January 20th 2024.