



ABOUT THE PROJECT

M2BRIDGE. Towards a Sustainable Cooperation in Teaching and Research in Lightweight Engineering and Multi-Material Design

Under the umbrella of the "German-Greek Academic Partnerships 2023-2025" call for proposals (HSP GR 23) of the German Academic Exchange Service (DAAD), the collaborative educational project M2BRIDGE commenced on January 1st, 2023. M2BRIDGE is dedicated to establishing and nurturing a sustainable, enduring partnership between the Technical University of Dresden (TU Dresden) and the University of Patras (UPAT), with a particular focus on engineering sciences. Its primary objective is to consolidate the research endeavors of both institutions and breathe life into their shared strategic vision for long-term cooperation in this field.

OUR TEAM



ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ
UNIVERSITY OF PATRAS

MEAD

Department of Mechanical Engineering & Aeronautics



CONNECT WITH THE PROJECT



 Prof. Angelos Filippatos, UPAT

 angelos.filippatos@upatras.gr

DAYS OF COOPERATION
TECHNICAL UNIVERSITY OF DRESDEN
UNIVERSITY OF PATRAS

2-3 November, 2023

Conference and Cultural Center of the University of Patras

1st Floor. Room II.9



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



OBJECTIVES AND MEASURES

The scientific basis for the M2BRIDGE project implementation is the excellent material sciences and lightweight engineering at TU Dresden and the long-standing and international experience of UPAT in the field of aeronautics. By combining the complementary competences of ILK and MEAD in the field of functionally integrative lightweight design, current research questions will be further developed in new joint projects and the foundation for expansion to neighboring disciplines should be given.

Specifically, the education project will be implemented with the following measures:

- Study, teaching and research visits by German and Greek students, PhD students, graduates, young academics and university lecturers.
- Dresden Summer School 2024.
- Patras Summer School 2025.
- Development and implementation of joint teaching formats with strong integrated digital component.
- Strategy workshops for the development of focus topics, involving the most important multipliers from administration and research at the universities as well as non-university actors; workshops for the preparation of joint project proposals.

In the above frame, the "Days of Cooperation" event is designed to promote collaboration, facilitate knowledge exchange, and explore potential areas of partnership between the Technical University of Dresden (TUD) and the University of Patras (UPAT).

Days of Cooperation Agenda

Days of Cooperation - Day 1

2nd November 2023 (09:00-16:00), 1st Floor, Room II.9

09:00 – 09:15	1. Registration and Check-in	ALL
09:15 – 09:20	2. Welcome & Opening remarks	Prof. A. Filippatos (UPAT)
09:20 – 09:30	3. Message from the Dean of the Polytechnic University of Patras and the DAAD Athens representative	Prof. N. Avouris (UPAT) Ms. V.R. Frentzou (DAAD)
09:30 – 10:00	4. Presentation of the University of Patras and the Mechanical Engineering and Aeronautics Department (MEAD)	Prof. V. Kostopoulos (UPAT)
10:00 – 10:30	5. Presentation of the TU Dresden (TUD) and the Institute of Lightweight Engineering and Polymer Technology (ILK)	Prof. M. Gude (TUD)
10:30 – 11:00	6. Coffee Break	All
11:00 – 11:20	7. Keynote speech on the importance of international cooperation for achieving a "Sustainable Europe by 2030"	Ms. M. Heitkamp (TUD)
11:20 – 11:35	8. Presentation of the M2BRIDGE - Project	Dr. D. Markatos (UPAT)
11:35 – 12:15	9. Study in Germany – General Information on Studies and Scholarships	Ms. V.R. Frentzou (DAAD)
12:15 – 12:30	10. Joint PhD program and Student opportunities at TU Dresden	Dr.-Ing. A. Winkler (TUD)
12:30 – 13:30	11. Lunch Break	All
13:30 – 14:00	12. Patras-Ambassadors: Sharing Experiences from Graduates and Master Students in Joint Activities	Ms. J. Madia (TUD) Mr. T. Kalampoukas (UPAT)
14:00 – 15:00	13. Consulting Hour between Senior Researchers, Students and DAAD	Dr. A. Hornig (TUD) Dr. A. Kotzakolios (UPAT)
15:00 – 16:00	14. Expression of Interest for Summer School and Internships at TU Dresden, Germany – Q&A	Dr. D. Markatos (UPAT)

Chair of 1st Day: Prof. P. Nikolakopoulos and Prof. E. Polatidis, UPAT

Chair of 2nd Day: Prof. M. Gude and Prof. T. Wallmersperger, TUD

Days of Cooperation - Day 2

3rd November 2023 (09:30-12:10), 1st Floor, Room II.9

09:30 – 09:45	1. Research Project Highlights in MEAD and ILK with focus on ongoing joint projects	Prof. A. Filippatos (UPAT)
09:45 – 10:00	2. Teaching and research at the Faculty of Mechanical Science and Engineering at TU Dresden	Prof. T. Wallmersperger (TUD)
10:00 – 10:15	3. Saxony valley: Industry and Opportunities	Dr.-Ing. A. Winkler (TUD)
10:15 – 10:35	4. Bridging Academia and Industry: the exemplary case of ADAMANT COMPOSITES spin-off company	Speaker TBC
10:35 – 11:10	5. Coffee Break	All
11:10 – 11:30	6. German courses and German exams at the Goethe-Institut.	Mr. S. Blocher (Goethe-Institut)
11:30 – 11:50	7. Selection of students for internships and Summer School 2024 participation in Dresden, Germany	Prof. M. Gude (TUD) Prof. V. Kostopoulos (UPAT)
11:50 – 12:10	8. Closing Remarks and upcoming events of M2BRIDGE (Summer School 2024 Dresden)	Prof. A. Filippatos (UPAT)

M2BRIDGE Partners

TUD	Technical University of Dresden
ILK	Institute of Lightweight Engineering and Polymer Technology, TUD
DCIM	Dresden Center for Intelligent Materials, TUD
UPAT	University of Patras
MEAD	Mechanical Engineering and Aeronautics Department, UPAT
AML	Applied Mechanics Laboratory, UPAT
MDL	Machine Design Laboratory, UPAT
LTSM	Laboratory of Technology & Strength of Materials, UPAT
DAAD	German Academic Exchange Service
GOETHE	Goethe-Institute



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