University of Applied Sciences Berlin

Practical projects with partners from the industry

Dear partners,

Within the project "Global Women in Engineering and IT" you provide dedicated students with the unique opportunity to participate in real industrial projects in cooperation with outstanding companies. As part of the project, you and students in their 5th bachelor semester work together in international teams. Through this, the students get to know processes, requirements, and challenges from the industry. The additional participation in two summer schools allows the students to gain exclusive insights into innovative and future-relevant topics such as Industry 4.0, Digital Twin and System Lifecycle Management. The duration of the participation in the practical project extends from the end of January to the beginning of September. During the realization of the projects, the students get to know the agile project management method Scrum. Within the Scrum process, you take the role of the customer, acting as both the customer and contact person for the project team. A project team consists of both German and international students. Each student is expected to work approximately up to 300 hours for this event. The roles of Product Owner (PO) and Scrum Master are performed by individuals within the team. Your main contact person is the PO.

Possible Topics:
- Consideration of a product/service over its entire life cycle
- Design and usage of a digital twin
- System driven Engineering
- Concept development after requirements elicitation and analysis including prototyping
- A detailed description of previous topics can be found on our website

Partner Expectations:

- Developing the project task and creating a project profile
  Participation at Summer School Events - Track #4 Part 1 Melbourne (February 2025) and Track #4 Part 2 Berlin (July 2025), specifically:
- Presentation of the project task (Online-Pitch Meeting in January 2025)
- Participation at the Welcome Meeting on the 3rd of February 2025 at Swinburne University of Technology or online: Introductions and get-together

- Planning and performing project Kick-Off Workshop on the 4th of February 2025 with your teams at Swinburne University of Technology or online: Vision, clarification of cooperation
- Mandatory participation on the day of final presentations at Swinburne University of Technology or online
- 3 mandatory meetings between Part 1 and Part 2 of Summer School Track #4
- Participation at the Welcome Meeting and day of final presentations for Track #4 Part 2 in Berlin (July 2025)
- Student performance reviews
- In the case of a specific technology,
  - the partner should have a technical contact person,
  - ideally training materials, a tutorial course or intensive support while the students get to know the technology
- In case in-house software or data is used,
  - the partner should provide accesses, test environments, etc.
  - and a technical contact person for the use and administration of the software or data.
- If partners cannot provide a technical contact/technical support, the team is free to decide which technologies they use.
- Participation in the review meeting at the end of each sprint (in total 5 sprints every third week)
  - In these meetings, the teams present the tasks they completed within the sprint. The partner provides feedback on the solution and decides whether each task can be considered completed or needs to be reworked.
- Contact person for the role of "Customer" in the Scrum process (coordination of the User Stories).
  - In particular, the backlog is prioritized with the customer, i.e. you agree with the PO on which tasks the team should prioritize and which tasks can be processed during the project.
- Experience has shown that it is easier to work with free and sustainable usable tools than with internal infrastructures.
- The effort for the project support depends on the task, but at least 4-5 (presence/ online) appointments should be planned. Furthermore, you should name 2 persons as contact persons to avoid absences during the project.
- You should meet the team at eye level. The aim is to create a project situation that is as realistic as possible. The partners are not the "supervisors " of the teams and, accordingly, do not evaluate them.
- Initiation of future research cooperation, e. g. in the form of workshops with HTW Berlin which will take place alongside the Summer Schools

Advantages for partners

There are several benefits for our partners. You get the chance to meet potential highly motivated future employees. In addition, you can determine the topics for the projects in consultation with us, utilize the project results and possibly explore certain topics more deeply in collaboration with one of the students in the form of a bachelor's thesis.

Advantages for students

Within the project, the students are going to work in international teams and get to know processes, requirements, and challenges from the industry. Through the additional participation in two summer schools, the students will gain exclusive insights into innovative and future-relevant topics such as Industry 4.0, Digital Twin and System Lifecycle Management. Furthermore, they experience a cultural exchange during the project, cooperate with innovative partners from the industry and acquire valuable contacts for their bachelor thesis.

Contact:

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In Cooperation with: