

JIP 2023 – Joint Interdisciplinary Project

JIP is an elective Master course at the TU Delft, contained within the curriculum, where students work in groups of ± 5 students for 10 weeks full time on a challenge identified by Industry. The course aims to develop student skills in working across disciplines and from a challenge driven perspective. For the students, JIP projects bring forward unique characteristics such as,

- a starting point in large open-ended problems,
- a value-driven approach to problem formulation and decision-making,
- training of self- awareness and self-leadership in combination with
- teamwork in projects that require addressing
 - engineering problem-solving,
 - societal concerns and
 - an entrepreneurial mindset and working method.

The JIP project assignments are about

- innovative
- interdisciplinary
- deep integrative
- design or research projects, and
- orientated towards value creation for society.

Solutions have to be environmentally, socially and economically sustainable.
The challenges require that

- innovative engineering and technology in an interdisciplinary mindset are
- in balance with non-engineering aspects such as societal relevance and impact, and
- 'out-of-the-box' business 'in the niche' development.
- The solutions must be actionable.

The teams working on the challenge have a diverse background from the different faculties at the TU Delft.

In JIP 2022: 45 companies/projects and 220 students participated.

Info: www.jointinterdisciplinaryproject.nl

Company participation

What we expect of the company:

Each student team will be mentored by a company coach. We expect of the company coach:

- To regularly meet (minimum weekly) the students
- To be present during the Kick Off and the team reviews
- To be present at the final review and assessment together with academic staff

The final team report and the team defense will be confidential.
The reviews and the public presentation with other teams and companies are public (open source).
The company organizes a study/field trip for the own student team (company case related).
The company can develop or co-create a company workshop/lecture (optional) for the JIP program and other teams (besides the own student team).

Submission:

February-March 2023

To assign for the company participation in JIP select the case studies will be approved and selected by the academic advisory board of the JIP team.

After this approval a short 'pitch' – 50 words description will be published on the website to pique the interest of the students.

The goal of the two-page description is to apply for participation and to be selected by the JIP advisory board and to inspire the interest of the students.

The 50 words description (prospective case description to be published on the JIP website):

- o logo company
- o title 'casestudy'
- o 1 picture related to the topic and/or company
- o description (± 50 words) topic/casestudy

The two-page description (to be published on Brightspace > TU Delft intranet accessible for students and staff only)

A brief description of (see format company case description -template):

- o Company profile
- o Subject title
- o Case description (± 80 words)
- o Problem assignment (± 40 words)
- o Reference to the UN Sustainable Development Goals (min.2)

April 2023

Companies will present their case at a (online) company pitch event followed up by a (online) Q&A blog between the company coaches and the interested master students.

Submission of a company pitch or the recorded company pitch (during the event) of the case study: to be published on TU Delft Brightspace.

Practical Information

A reimbursement of the travel costs of the students by the company, to visit the company and/or project-stakeholders during the project. To have no limitation for public transport travelling for (international) students without an OV chipcard for students.

Optional: An internship allowance, according to the policy of the company.

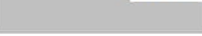
The working place of the student team is located both in the company and at the TU Delft.

Contact:



5.1.2.e

E: @tudelft.nl

T: 

JIP: www.jointinterdisciplinaryproject.nl

JIP: companies-jip@tudelft.nl

FLOW OF ACTIVITIES

JIP 2023

Feb/March Week 8-14	Start submission companies and cases JIP 2023 <i>Submission two-page description, company profile and case description</i>
March Week 10-14	Announcement of participating companies on website JIP 2023 <i>Publication logo's participating companies</i>
March-April Week 10-14	Announcement of participating company cases on website JIP 2023 <i>Publication approved cases: 50 words descriptions JIP website</i>
April Week 14-15	Detailed case descriptions will be published on Brightspace. <i>Brightspace is a closed TU Delft intranet environment (accessible for students)</i>
April-May Week 17-19	Online presentation company pitch events; Q&A with interested students (1 hour) <i>To inform interested students and connection with companies/cases of their interest Recorded online pitches by the company coaches will be published on Brightspace.</i>
April-May Week 17-20	Student application period. April 24 th - May 17 th <i>No action needed from company side</i>
May Week 21-23	Selection of students and teams. Start: May 22 nd <i>Student allocation to teams by JIP core team No action needed from company side</i>
June Week 24	Announcement selected student teams: June 12 th <i>TU Delft JIP team informs the companies and the students about the team compositions. Opportunity to organize a meeting between the students & the company in June-July</i>
August Week 34-35	<i>optional</i> Online onboard sessions company coaches & JIP core team <i>Informational meetings about the details of the program, digital tools, assessment criteria. These meetings will be recorded (1 hour)</i>
September Week 36	Kick Off JIP; Start September 4 th <i>Presence required of the company coach: Tuesday September 5th (afternoon 2 ½ hours; time-slot 13.00-15.30 or 16.00-18.30)</i>
September Week 37	Problem Definition Review <i>Presence required of the company coach: Thursday September 14th or Sept 15th (2 ½ hours)</i>

- October**
Week 41 Midterm Review
Presence required of the company coach: Thursday October 12th or October 13th (2 ½ hours)
- November**
Week 44 Submission of the final report (confidential) by the student teams
Review of the final report by the company coach and TU Delft academic staff (experts)
- November**
Week 45 Final Review and defense (closed meeting) November 8th – 10th
Presence required by company coach and academic staff (1 ½ hour)
- November**
Week 45 Public Poster Presentation November 10th afternoon 14.00-16.00h (TU Delft campus)
Opportunity to invite colleagues and stakeholders (companies) and fellow students, family, friends (JIP students). Celebration of the JIP 2023 results.