



**UNIVERSITÀ  
DI TRENTO**  
Dipartimento di  
Fisica



CONFINDUSTRIA TRENTO

**TRENTINOSVILUPPO**  
IMPRESA INNOVAZIONE MARKETING TERRITORIALE

**Hi**  
HUB  
INNOVAZIONE  
TRENTO

**IPSP2025**  
**Industrial Problem Solving with Physics**  
**30 June – 07 July 2025**

**CALL FOR APPLICATIONS FOR  
YOUNG RESEARCHERS**



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## INTRODUCTION

“Industrial Problem Solving with Physics” (IPSP) is a one-week event organized by the Department of Physics, the Doctoral Programme in Physics and the Division for the Valorization and Impact of Research of the University of Trento, in collaboration with Confindustria Trento, Polo Meccatronica – Trentino Sviluppo and Hub Innovazione Trentino. The main goal of IPSP is to provide the young and talented researchers with the opportunity to use their knowledge and skills to tackle relevant industrial problems.

The event aims also at boosting the connection between the Department of Physics and the industrial world. The students and researchers who take part in the event will be asked to work in teams, hosted by the infrastructures of the Department of Physics, to face new problems and challenges oriented towards the industry, which eventually go beyond their theoretical and experimental research activities.

The event will take place 30 June – 07 July, 2025 at the Department of Physics, University of Trento.

## ART. 1 - PURPOSE OF THE CALL

The purpose of this call is to select up to thirty (30) young researchers to take part in the event IPSP2025 from 30 June - 07 July, 2025.

## ART. 2 - ELIGIBILITY REQUIREMENTS

This call is addressed to PhD students and graduates, master students and graduates, research fellows and scholarship holders, aged 35 or under on April 24, 2025.

PhD students and graduates from the following subject areas::

- Physics
- Space Science and Technology
- Information and Communication Technology
- Environmental Engineering
- Civil, Environmental and Mechanical Engineering
- Civil and Mechanical Structural Systems Engineering
- Materials, Mechatronics and Systems Engineering
- Mathematics
- Biomolecular Science

Students and graduates of the following Master degree classes

- LM-4 - Architettura e ingegneria edile-architettura
- LM-8 - Biotecnologie industriali
- LM-9 - Biotecnologie mediche, veterinarie e farmaceutiche
- LM-17 - Fisica
- LM-18 - Informatica
- LM-20 - Ingegneria aerospaziale e astronautica
- LM-21 - Ingegneria biomedica
- LM-22 - Ingegneria chimica
- LM-23 - Ingegneria civile
- LM-24 - Ingegneria dei sistemi edilizi
- LM-25 - Ingegneria dell'automazione
- LM-26 - Ingegneria della sicurezza
- LM-27 - Ingegneria delle telecomunicazioni



- LM-28 - Ingegneria elettrica
- LM-29 - Ingegneria elettronica
- LM-30 - Ingegneria energetica e nucleare
- LM-31 - Ingegneria gestionale
- LM-32 - Ingegneria informatica
- LM-33 - Ingegneria meccanica
- LM-34 - Ingegneria navale
- LM-35 - Ingegneria per l'ambiente e il territorio
- LM-40 - Matematica
- LM-44 - Modellistica matematico-fisica per l'ingegneria
- LM-53 - Scienza e ingegneria dei materiali
- LM-54 - Scienze chimiche
- LM-58 - Scienze dell'universo
- LM-71 - Scienze e tecnologie della chimica industriale

Graduates and students of the last two years of this Degree Class:

- LM-4 C.U. - Architettura e ingegneria edile-architettura (quinquennale)

Master students and graduates from non-Italian Universities, from a degree equivalent to one of those listed above.

### ART. 3 - DESCRIPTION OF THE EVENT

The event will span the whole week from June 30 to July 07, 2025. The activities will take place as scheduled:

**30 June, morning:** the selected companies will introduce the problems to the participants who are divided in teams, one for each problem. During this stage each team will be followed by a representative from the company, as reference and technical assistance counsellor for the discussion;

**30 June, afternoon; 01 July, whole day; 02 July, morning:** the teams will work autonomously on the problems, using the facilities of the Department of Physics if needed and the assistance of the Division for the Valorization and Impact of Research of the University of Trento;

**02 July, afternoon:** the teams will meet with the representatives of the companies and at least a member of the Scientific Committee to discuss the ideas developed during the work sessions and their problem-solving actions;

**03 e 04 July, whole day:** the teams will keep working to complete their research and solutions;

**05 July, morning:** each team will discuss their work results with the companies and the Evaluation Committee. The closing ceremony will follow;

**06 July, whole day:** free day;

**07 July morning:** press conference: presentation of the problems and results. Then the most efficient and appropriate solution will be selected and acknowledged.

The results obtained during the week will be delivered to the participating companies after the event.

### ART. 4 - APPLICATION

In order to apply, the candidate has to fill out the online application form available at

<https://webapps.unitn.it/Apply/it/Web/Home/convegni> (Italian version)

<https://webapps.unitn.it/Apply/en/Web/Home/convegni> (English version).



The deadline for the application submission is **April 24, 2025 at 1:00 p.m.** Applications submitted after the deadline, as well as incomplete or not finalized applications, will be automatically excluded from the evaluation process.

The candidate will provide personal information about his/her academic career, and will be asked to upload the following documents:

- the curriculum vitae (short) - for a more effective selection, it is strongly recommended to specify in particular the scientific and computer skills within the CV.
- the academic record (curriculum studiorum), reporting exams and marks

All applicants are also required to confirm their willingness to sign a Non-Disclosure Agreement (NDA). This is mandatory for participating in the event.

The submission of the application by completing the online application form implies the acceptance of all the conditions set out in this notice.

Non-EU citizens are required to provide a copy of either the Residence Permit for EU countries or the Passport (including Schengen visa details, if required).

If the number of applications received is considered insufficient, the Organizing Committee will extend the deadline.

All the relevant information will be published on the event official website <http://event.unitn.it/ipsp2025/en>.

## ART. 5 - EVALUATION OF THE APPLICATIONS

The Scientific Committee is in charge of evaluating the applications and establishing a rank for the young researchers' selection.

The evaluation of the applications, at the incontestable discretion of the Scientific Committee, will be based on:

- skills in applied technical research;
- suitability to the role of a young researcher and coherence towards the aims of IPSP;
- education – studies in Physics will be taken into particular account.

The names of the successful candidates will be published on the official website by May 09, 2025. Those candidates will be notified by email within the same day.

After the selection is concluded, the Scientific Committee will assign each young researcher the basis of his/her personal attitudes to a team, which will deal with selected industrial problem. Any change in the teams' composition must be asked for within the first day of the event. It is not guaranteed, however, that the request will be satisfied.

## ART. 6 - REGISTRATION AND PAYMENT

To complete the registration, the selected candidates will have to pay an admission fee of €20,00 by May 30, 2025. Further information will be sent to the candidates via e-mail, and will be reported on the official website

The registration fee includes:

- participant KIT
- stationery
- work materials
- meals and coffee breaks during the event
- open access to the Department of Physics facilities and to the University Wi-Fi network.



## ART. 7 - ACCOMMODATION FOR OFF-SITE PARTICIPANTS

Candidates without a domicile in the event location<sup>1</sup> can apply for an accommodation paid by the organization for the whole week (arrival on Sunday June 29; departure on Monday July 07). The exact number of the available lodgings will be declared later, based on the resources at disposal of the organization; they will be assigned on the basis of the evaluation ranking.

## ART. 8 - INELIGIBILITY AND WITHDRAWAL

Any candidate whose application fails to comply with the rules established in the present call will be automatically declared ineligible.

The successful candidates can decline their position within 5 days from the date of publication of the admission list, by sending an e-mail to [ipsp@unitn.it](mailto:ipsp@unitn.it) by May 14, 2025. Vacant positions will be progressively offered to other eligible applicants following the order of the ranking list. In case of withdrawal the admission fee will not be reimbursed.

## ART. 9 - CANCELLATION OF THE EVENT

In case the minimum number of 3 participating companies and the minimum number of 18 eligible young researchers are not reached within the final deadline, the Evaluation Committee retains the right to cancel the event.

## ART. 10 - INTELLECTUAL PROPERTY

All participants in the event will be required to sign the IPSP2025 Non-Disclosure Agreement (NDA) (attached) and any other confidentiality agreements upon request from the participating companies. As stated in ART. 4, the willingness to sign the agreement is mandatory to participate in the event.

The intellectual property deriving from the activities carried out during the IPSP2025 event is jointly owned by the selected company proposing the specific business problem and the University of Trento. The University will arrange for the assignment in its favor of the intellectual property rights by the selected young researchers participating in the initiative. Specific exploitation and valorization agreements will be subsequently negotiated in good faith by the company and the University for each possible nascent intellectual property right, including patents, on the basis of agreement proposals by the Division for the Valorization and Impact of Research of the University of Trento.

Non-disposable or non-perishable materials and prototypes made by the work group used or transferred in the course of experimentation or tests in the laboratories of the companies remain in the property of the University. Similarly, non-disposable or non-perishable materials and prototypes made available to companies and used or transferred in the course of experimentation or tests in the university laboratories remain in the property of the company.

## ART. 11 - FURTHER INFORMATION

Le informazioni e la modulistica relative al presente bando sono disponibili sul sito dell'iniziativa <http://event.unitn.it/ipsp2025/en>, che rappresenta il canale di comunicazione ufficiale. È possibile, inoltre, rivolgersi al seguente indirizzo email [ipsp@unitn.it](mailto:ipsp@unitn.it) per ottenere maggiori informazioni e chiarimenti.

Information and documents of the call are available on the IPSP site <http://event.unitn.it/ipsp2025/en>, which is the official channel of communication. In order to get further information send an email to [ipsp@unitn.it](mailto:ipsp@unitn.it)

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<sup>1</sup> The "location of the event" includes Trento municipality and the surrounding area within 40 km.



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## **ART. 12 - PERSONAL DATA PROCESSING**

The University of Trento processes the personal data provided by the applicants as declared in the information given in the online application, in compliance with with the relevant European and Italian Law.



## ATTACHMENT - NON DISCLOSURE AGREEMENT (NDA)

Data of IPSP2025 Participant:

Name and Surname: .....

Date and place of Birth: .....

Address: .....

E-mail: .....

During a week (30 June – 07 July 2025) I will take part in “Industrial Problem Solving with Physics” organized by the University of Trento.

By signing this Non Disclosure Agreement (NDA) I acknowledge and agree that the information, knowledge and sensitive materials, i.e. not publicly accessible, which will be made available by the companies participating in the event of “Industrial Problem Solving with Physics” for the conduct of the work and the development of solutions as required by the tender, may fall within ‘scope of the legislation on industrial property (Legislative Decree no. 30 of February 10, 2005, as amended)’ or give rise to any kind of patent registrations, or may be part of projects financed by public or private entities that have placed special constraints to the dissemination of the results for privacy reasons.

Further, by signing this Non Disclosure Agreement (NDA) I commit:

- to maintain the confidentiality of information, knowledge and materials mentioned above, avoiding to disclose them to any person other than that provided them for a period of two years;
- to use them, with the companies participating in the “Industrial Problem Solving with Physics” for the sole purpose of the activities provided by the tender;
- to refrain from acts that would be prejudicial economic use of the same by the legitimate owners.

Date and Place

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Signature

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