

Doctorate Program in Industrial Innovation

UNIVERSITY OF TRENTO

- 11 departments / 4 research centres
- ≈ 16.000 students / ≈ 850 PhD students / ≈ 400 post-docs
- ≈ 750 professors / 750 administrative and technical personnel



DOCTORATE - PhD



Italian law (2021)

*“The doctorate provides the necessary skills to carry out **highly qualified research activities** at universities, public bodies or private entities, also for the purpose of accessing careers in public administrations and **integrating highly innovative professional paths.**”*

DOCTORATE - PhD

PhD typologies:

- ✓ *PhD in non-associated form*
- ✓ *Associate doctorate*
- ✓ ***Industrial doctorate***
- ✓ *PhD of national interest*

INDUSTRIAL DOCTORATE

*Doctoral course activated on the basis of **agreements or consortia which include companies**, including foreign companies, which carry out a **qualified research and development activity** ...*

*The research themes characterizing the industrial doctorate program give particular importance to the **promotion of economic development and the production system**, facilitating **joint planning** in relation to the research themes and the activities of the doctoral students ...*

*Calls for admission to industrial PhD courses ... can... **allocate a portion of the available places to employees of partner companies or institutions** engaged in highly qualified activities, admitted to the doctorate after passing the relative selection*

DOCTORATE IN INDUSTRIAL INNOVATION @ UNITN

Goals:

- 1. Training of professionals with in-depth knowledge of industrial problems and expertise in the search for innovative solutions specific to the scientific sector of reference, promoting their development in innovative and frontier fields that require interdisciplinary knowledge;*
- 2. Establishment of paths that enhances PhD students' **entrepreneurial, managerial and innovation process management skills** focused on market needs, providing specific training and opportunities to undertake **professional experiences in industrial contexts with a high R&D intensity.***

DOCTORATE IN INDUSTRIAL INNOVATION @ UNITN

Founded in 2019

Duration of the PhD: three years

Academic year: November 1st - October 31st

Official language: English (foreign students are encouraged to learn Italian within the second year)

DOCTORATE IN INDUSTRIAL INNOVATION @ UNITN

Bodies of the Doctorate Program:

1. Doctoral School Committee

... professors, researchers, experts from companies

2. Coordinator

3. Executive committee

4. Industrial Board

... can express opinions on the planning of the scientific, cultural and educational activities of the PhD course and also make proposals on the matter

DOCTORATE IN INDUSTRIAL INNOVATION @ UNITN

Coordinator: Prof. Vincenzo M. SGLAVO

Deputy - coordinator: Dr. Domenico SIRACUSA

Members of the Executive Committee:

Prof. Roberta CUEL, Prof. Paolo BOSETTI, Prof. Fabrizio GRANELLI,

Prof. Maurizio GRIGIANTE, Prof. Claudio SACCHI, Dr. Stefano TONETTA

DOCTORATE IN INDUSTRIAL INNOVATION @ UNITN

FOUNDERS



UNIVERSITÀ
DI TRENTO

Dipartimento di
Ingegneria e Scienza dell'Informazione



UNIVERSITÀ
DI TRENTO

Dipartimento di
Ingegneria Industriale



ASSOCIATES



UNIVERSITÀ
DI TRENTO

Dipartimento di
Economia e Management



UNIVERSITÀ
DI TRENTO

Dipartimento di
Ingegneria Civile, Ambientale e Meccanica



UNIVERSITÀ
DI TRENTO

Dipartimento di
Fisica



UNIVERSITÀ
DI TRENTO

Dipartimento di
Biologia Cellulare, Computazionale e Integrata - CIBIO

PARTNERS



TRENTINOSVILUPPO
IMPRESA INNOVAZIONE MARKETING TERRITORIALE

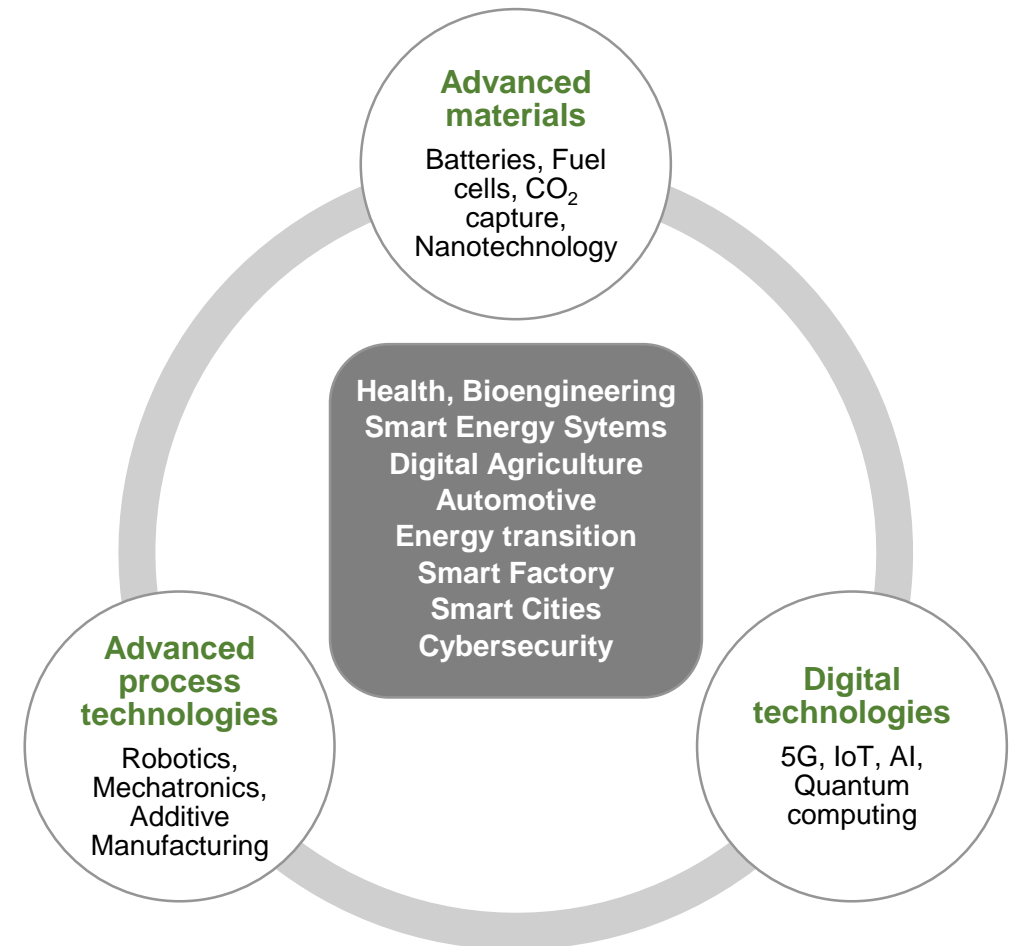


CONFINDUSTRIA TRENTO

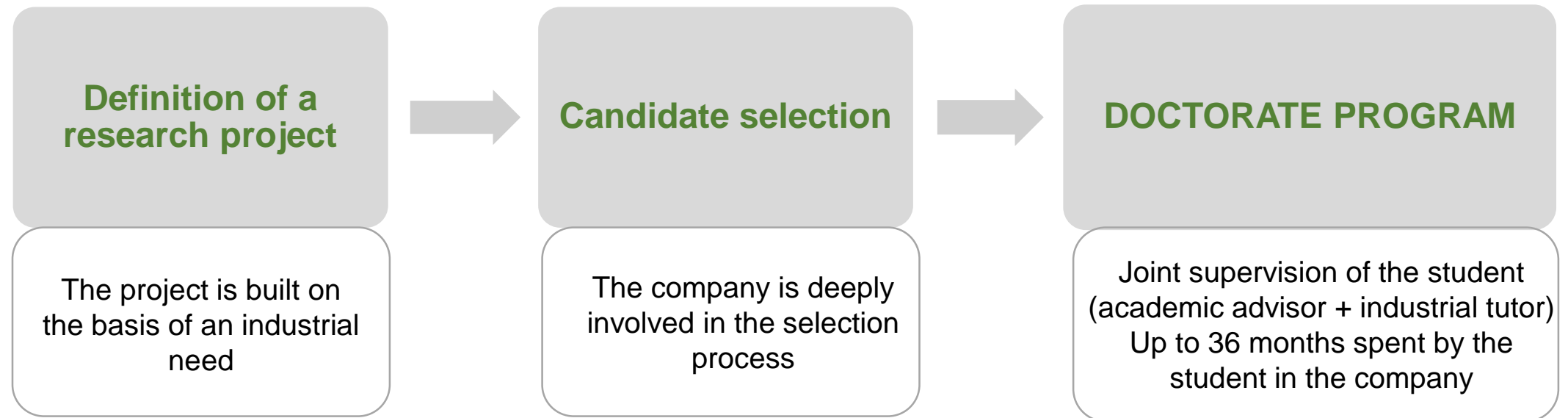
RESEARCH THEMES

The PhD course in Industrial Innovation aims at **applying a series of enabling technologies in the industrial field to create innovation.**

The ultimate goal is to **train highly qualified professionals** with diversified technical and scientific skills who can contribute to solve the challenges posed by modern industry.



REAL PARTNERSHIP BETWEEN COMPANIES AND RESEARCH INSTITUTION



MUTUAL ADVANTAGES

Companies

Talent access:

Professionals able to respond to companies' innovation needs through research and precompetitive development

Knowledge access:

Opportunity to collaborate with international level first-class research groups to exploit advanced research outcomes

Research institution

Disruptive innovation:

Opportunity to work on research topics with high innovation potential

Knowledge transfer:

Opportunity to transfer research results to real-world contexts

COLLABORATION MODES

Executive

To **enhance an employee** and improve his/her research-oriented innovative contribution within the company

The Employee maintains his status within the company

Requirement: the Employee must be involved in high-qualification research activities

Scholarship

To collaborate **with top researchers** to support the companies' research and innovation activities

Up to 36 months of internship in the company during the PhD program

Activation of a PhD scholarship in collaboration with UNITN/FBK to be assigned to selected candidate

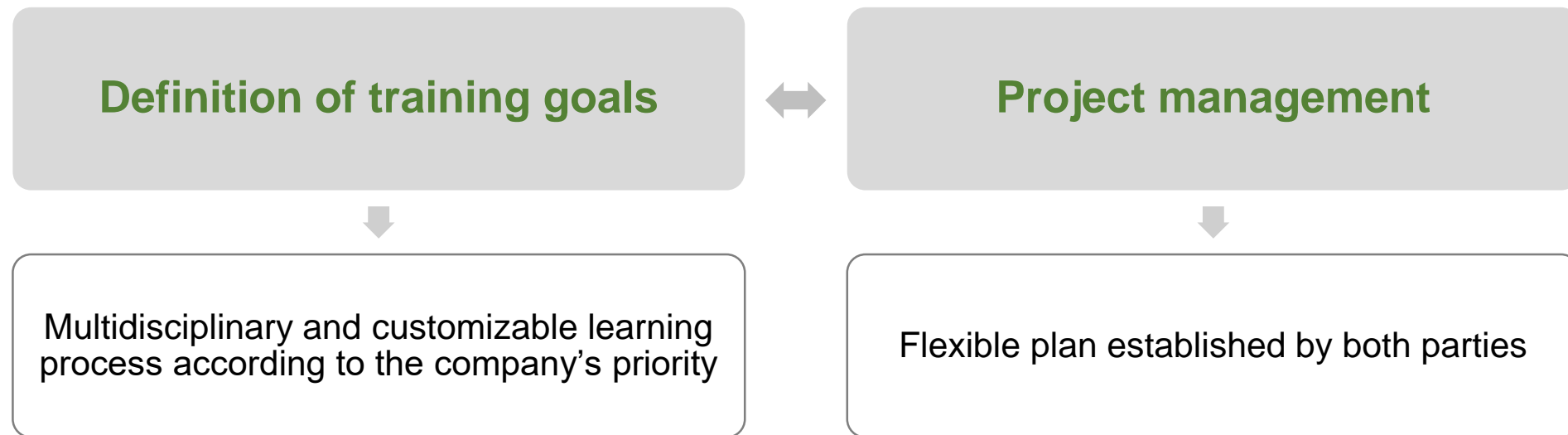
ACADEMIC ADVISOR & INDUSTRIAL TUTOR

Academic Advisor: internal or external to the Doctoral School Committee, assumes the role of supervisor

Industrial Tutor: co-supervisor, identified by the financing company

- They define and share a **training plan for the PhD student** which includes the training objectives of the course, the **description of the research project** and the methods for carrying out the training and research activities
- They collaborate in the **management and control of the training, teaching and research activities** of the PhD student

COLLABORATION BETWEEN ACADEMIC AND INDUSTRY TUTORS



POSITIONS AND COMPANIES

Activated positions

2019
8 (2 executive)

2020
15 (9 executive)

2021
17 (8 executive)

2022
33 (3 executive)

2023
14 (9 executive)



NEXT CALL TIMELINE

Identification of
research themes
March-April 2024



Online application
May-June 2024

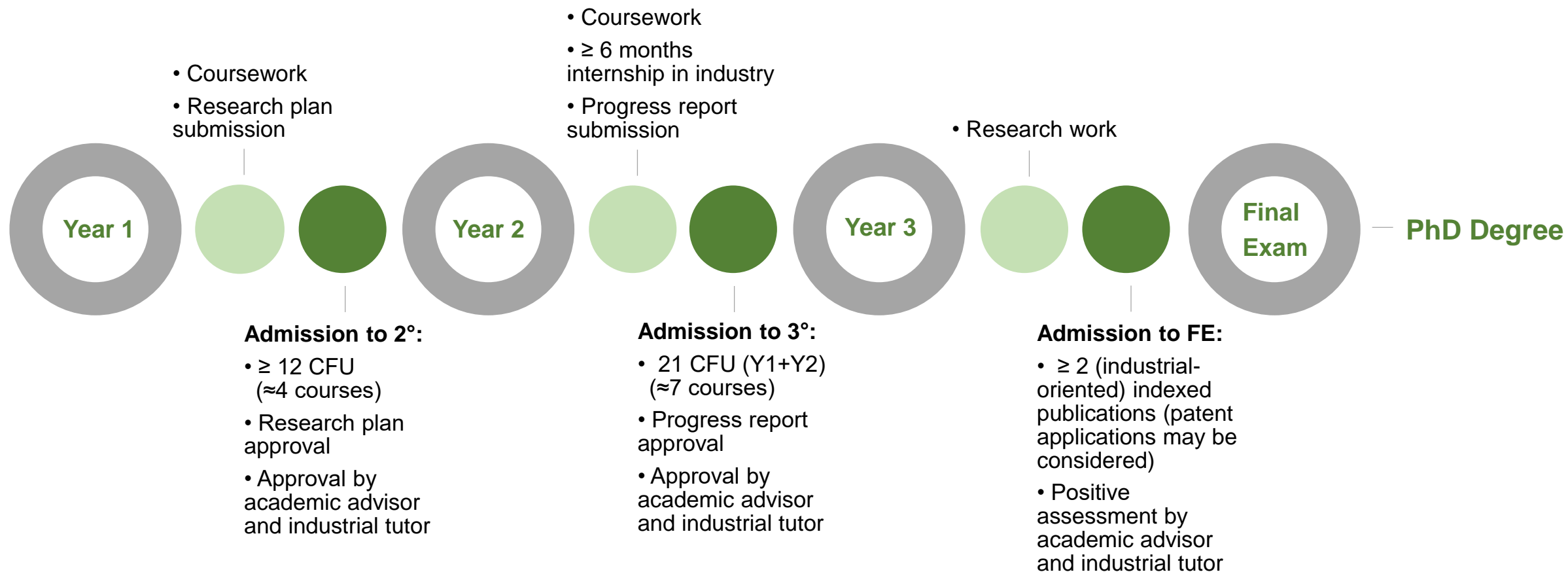


Applicants' selection
July 2024

Applications for the PhD Program in Industrial Innovation are accepted from applicants who hold a Master's Degree (*Laurea Magistrale*)

Applications are also accepted from students who expect to complete their Master by October 31st 2024

TIMELINE OF THE PHD PROGRAM



MULTIDISCIPLINARY TRAINING COURSES

Training packages

Technical & Scientific courses

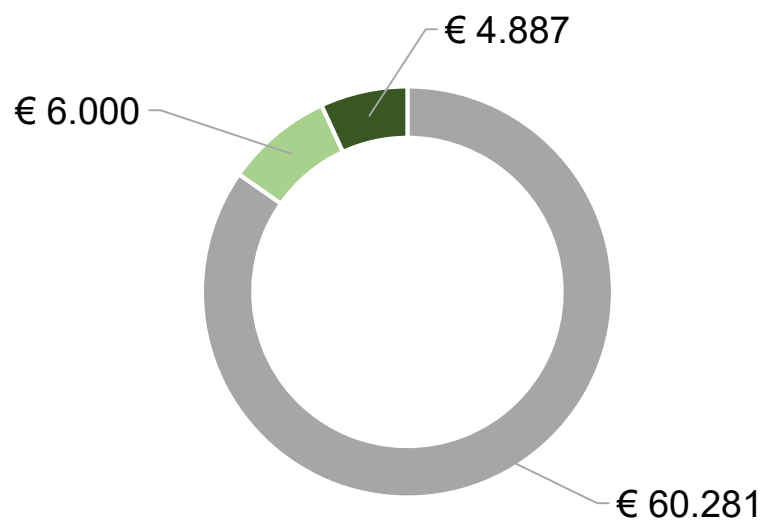


Soft skills, Innovation & Entrepreneurship courses



TOTAL COST FOR 3 YEARS TO BE SUSTAINED BY THE COMPANY

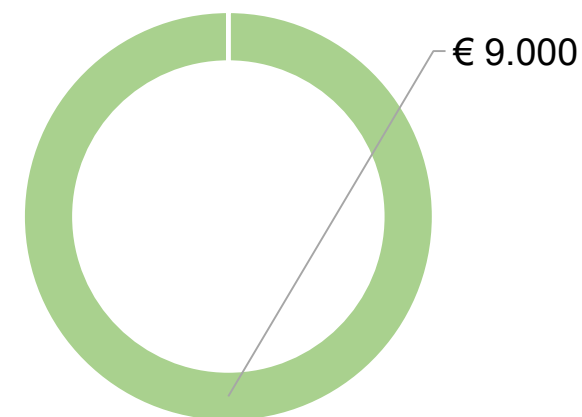
Scholarship



Total: € 71,168.16

- Scholarship
- Management fees
- PhD student personal research budget

Executive position



Total: €9.000

- Management fees

The financial conditions of the employment contract are defined directly between the company and the applicant

SCHOLARSHIP & RESEARCH BUDGET

Scholarship

- All the PhD positions are covered by scholarships. The scholarship is approx. 1.200 €/month net for 3 years. The net amount may change, depending on the country of residence and specific taxation agreements.

Research budget

- Each student is provided with a budget for research activity amounting 4.887 € for 3 years, which can be used only for educational/research purposes, e.g. conferences, summer schools, registration to scientific associations, etc.

BENEFITS

Accommodation

- 1st year students have the priority for obtaining accommodation at student residences

Annual pass for public transport

- PhD students can buy an annual bus pass (public transport within Trento province) at the reduced cost of 50 €

Visa and stay permit

- The Welcome Office of the University of Trento supports students in the visa request, arrival, permit of stay and housing procedures

CONTACTS

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