



Doctorate in Industrial Innovation





Partners











Dipartimento di Ingegneria Industriale





Dipartimento di Economia e Management



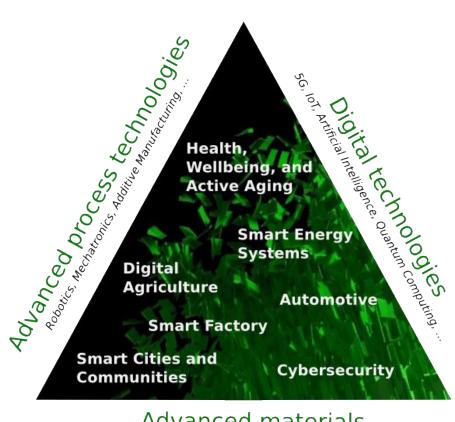






Toward Industry 4.0

The Doctorate Program in Industrial Innovation consists of a structure where a series of enabling technologies are applied to industrial domains to create innovation in accordance with the strategic approach, Industry 4.0.



Advanced materials

Nanotechnology, Graphene, ...





Advantages

Companies

Talent access:

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

Knowledge access:

Opportunity to collaborate with first-class research groups at the international level exploiting advanced research outcomes

Research Centers

Opportunity to work in research topics with high innovation potential

Opportunity to experiment the impact and applicability of research in real-world contexts





Collaboration Modalities

PhD Executive

To value an employee and improve his/her technical and innovative contribution within the company

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

The Employee maintains his status within the company

Requirement: The Employee must be involved in high-qualification activities

Highly-Skilled Apprenticeship Scholarship To have access to the **top students** whose training will be
according to the companies'
needs with the final aim of
hiring them

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

Activation of a PhD scholarship in collaboration with UNITN/FBK

Collaboration Scholarship

To collaborate with top researchers in order to support the innovation process of companies' products and services

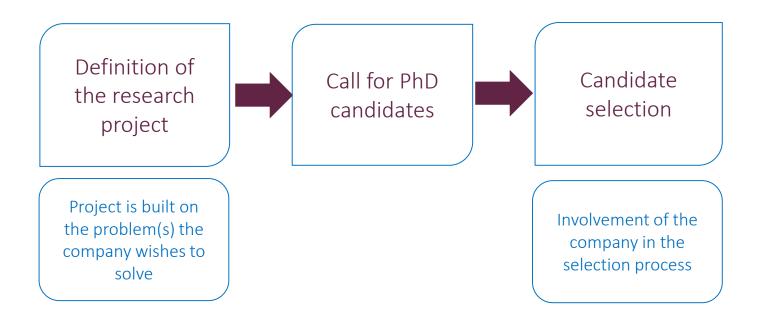
Up to 18 months of internship in the company during the PhD program

Activation of a PhD scholarship in collaboration with UNITN/FBK





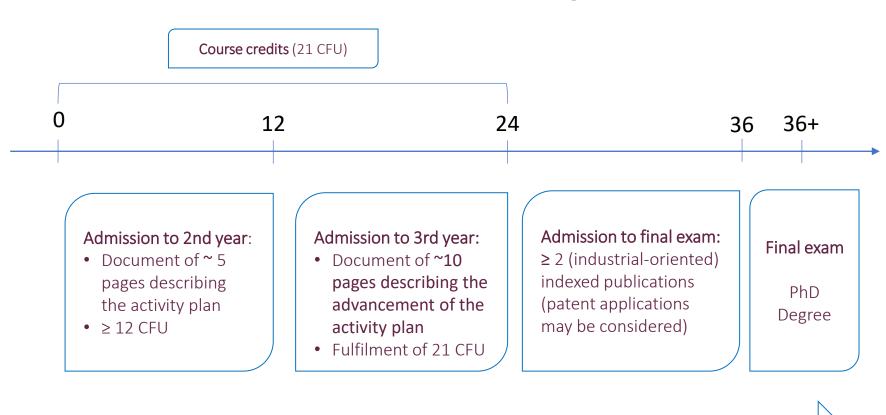
Kicking off the Collaboration







Timeline of the PhD Program



Supervision:

Each admission to next year requires the positive assessment by both academic and company tutors.





Collaboration between academic and company tutors

Definition of training goals

Project management

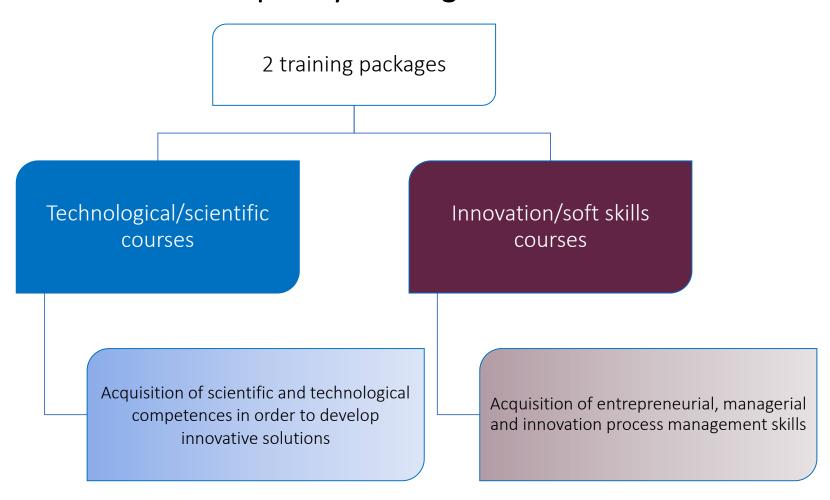
Multidisciplinary and customizable learning process according to the company's priority

Flexible plan established by both parties





Multidisciplinary Training Courses







Technological/Scientific Package

DISI

Dipartimento di Ingegneria e Scienza dell'Informazione Computational-thermodynamics

Networks Nonlinear-vibration
Computer-Vision Pattern-recognition
X-Ray-diffraction Deep-learnings

Research-methodology

Artificial-intelligence
Wireless-systems
Electron-microscopy Thermal-analysis
Big-Data Material-science
Embedded-System
Oualification-SEM/DEM

DII

Dipartimento di Ingegneria Industriale

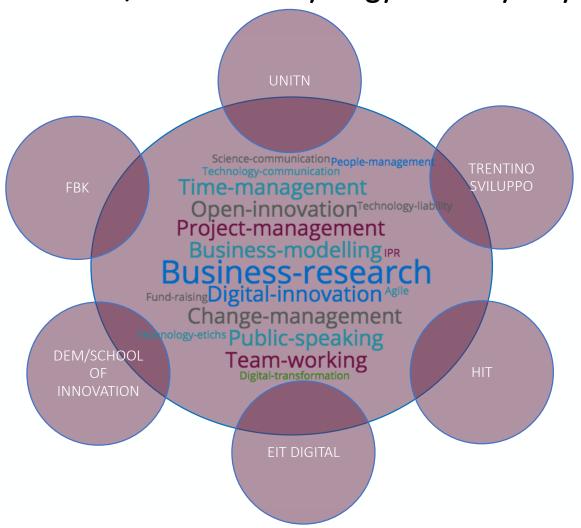
FBK

Fondazione Bruno Kessler





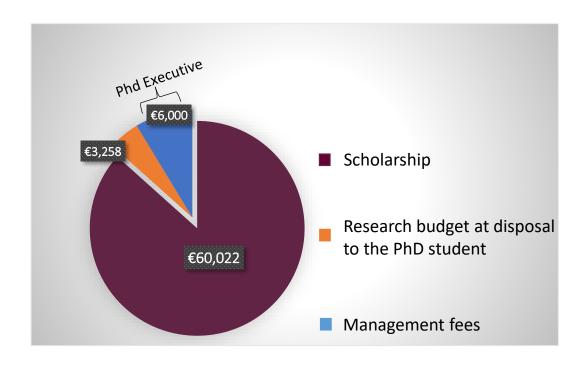
Innovation/Soft Skills – Synergy with Key Players







Total Scholarship Cost for 3 Years







Collaboration with Companies

CORE modality

Other modality

Possibility to participate to the Industrial Board of the Doctorate for proposing and triggering research topics of industrial interest and industrial seminars

Commitment to finance at least one PhD scholarship or activate a PhD Executive in three years over specific topics

Possibility to subscribe an agreement with the departments in order to ease the access to Master (and Bachelor) students for implementing internships and research projects related to specific courses

Financing of scholarships in specific topics of interest





Co-funding Opportunities



Possibility to get 50% of co-funding from Trentino Sviluppo for the next PhD cycle (November 2020)



EIT Digital Industrial Doctorate School (co-funding up to 50% for partner companies) https://doctoralschool.eitdigital.eu/

Innovation areas: Digital Industry, Digital Cities, Digital Wellbeing, Digital Tech and Digital Finance





Contacts

UNITN

industrial-innovation@unitn.it

Tel. 0461-285328

FBK

bresciani@fbk.eu

Tel. 0461-314027

See for more information:

https://iid.unitn.it/