

24/05/2023

Benvenuti | Welcome

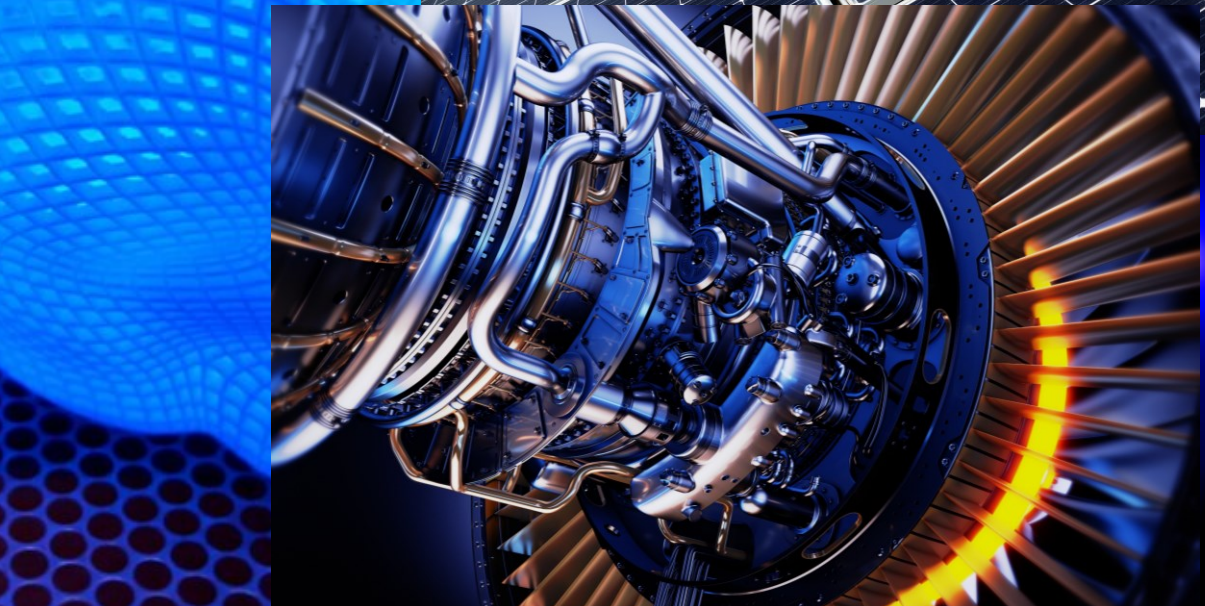
Salone dell'Orientamento Lauree Magistrali

Ingegneria dei Materiali per l'Industria 4.0



**Politecnico
di Torino**

Unisciti alla rivoluzione dell'Ingegneria dei Materiali per l'Industria 4.0

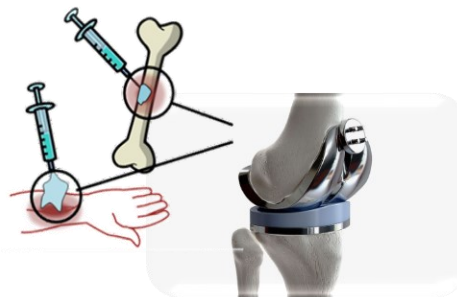


In quali settori l'Ingegnere dei Materiali?

Produzione di energia



Biomedicale



Manifattura avanzata

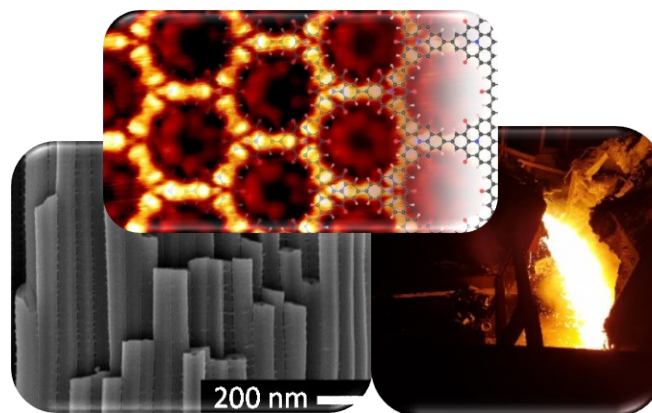


Competenze trasversali al servizio delle imprese e della ricerca di frontiera

Abbigliamento sportivo & sensori



Produzione di materiali



Trasporti



Tre orientamenti + 1 percorso internazionale

Materiali Strutturali



Materiali Funzionali



Materials Engineering for Advanced Manufacturing



Joint Master in Manufacturing 4.0

Materiali Strutturali

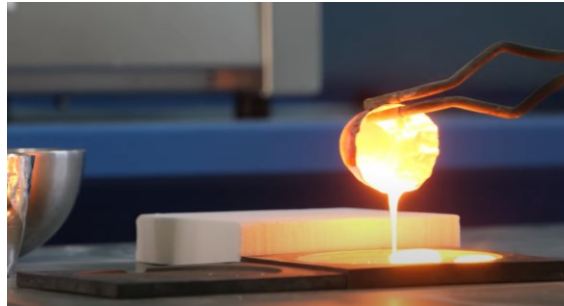


PRIMO ANNO

Materiali Funzionali



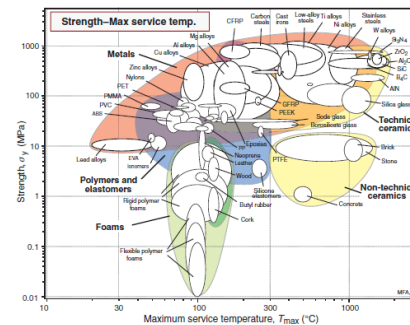
Ceramici avanzati



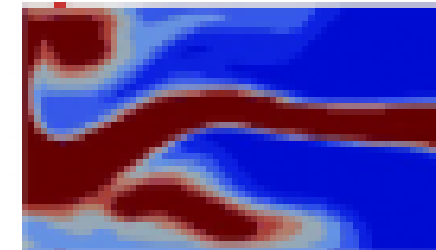
Impianti metallurgici



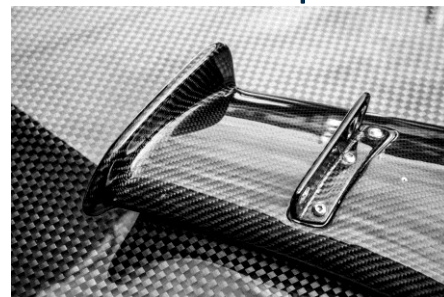
Ingegneria dei materiali



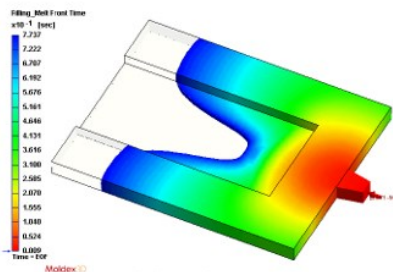
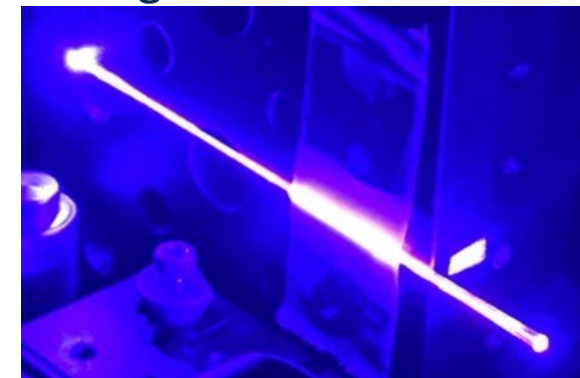
Physical chemistry of dispersed systems



Scienza e tecnologia dei materiali compositi



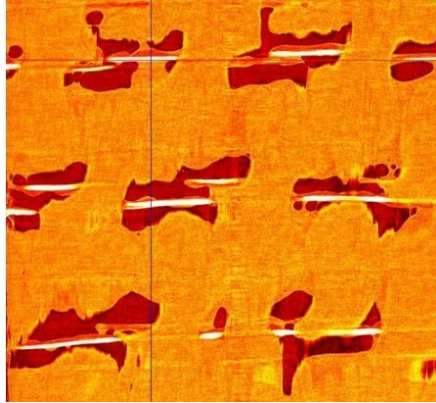
Scienza e tecnologia dei materiali funzionali



Tecnologia dei materiali polimerici



Chimica, fisica e ingegneria delle superfici



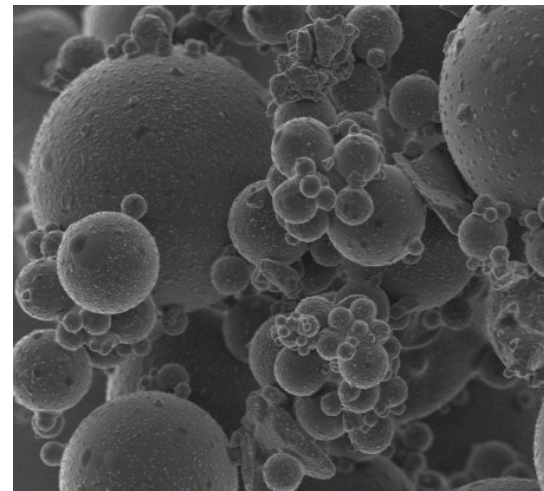
Strategie di sviluppo dei materiali



Materials and production process simulation



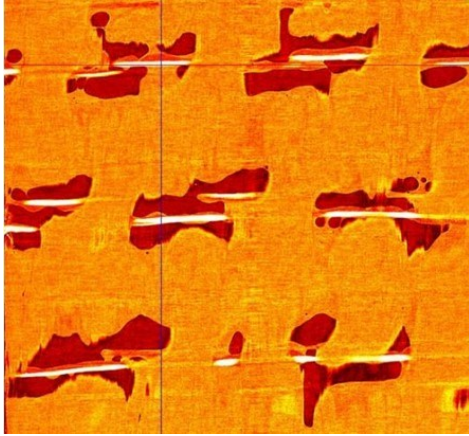
Metal forming technologies



Crediti liberi/Tirocinio
Tesi



Chimica, fisica e ingegneria delle superfici



Biomateriali



Ingegneria dei nanomateriali



Degradazione e riciclo dei materiali polimerici



Crediti liberi/Tirocinio
Tesi

Materials Engineering for Advanced Manufacturing



FIRST YEAR

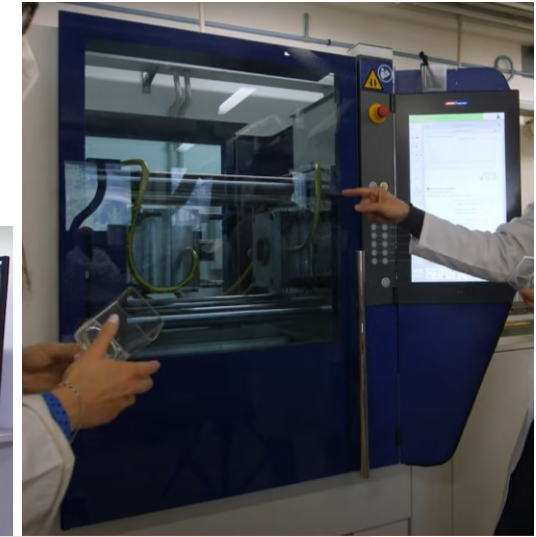
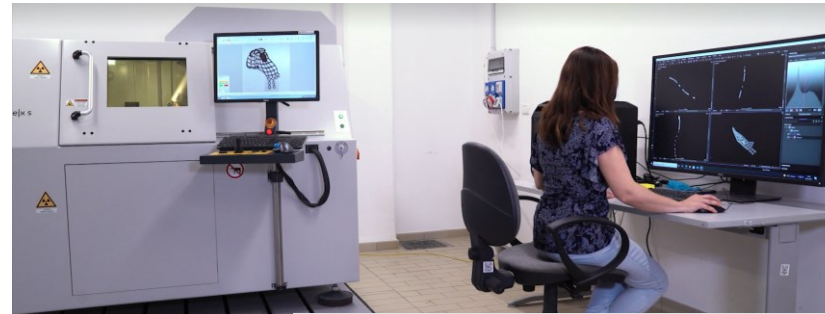
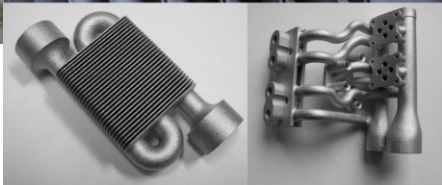
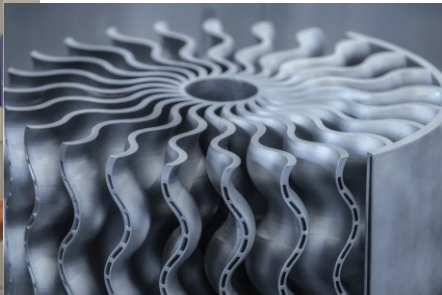
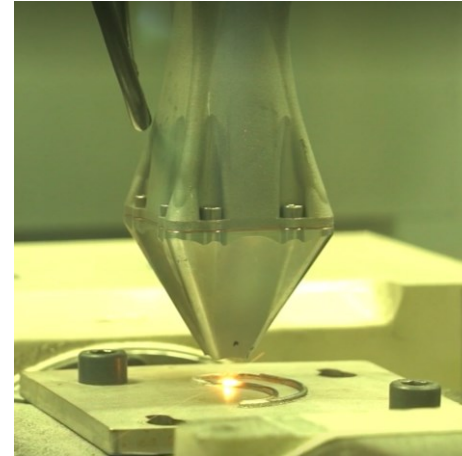
FIRST PERIOD

Resources and Environmental Sustainability

Integrated Manufacturing Systems

Quality Control Techniques in Materials Engineering

Materials for Advanced Manufacturing I



SECOND PERIOD

Materials for Advanced Manufacturing II

Surface science and technology

Materials Forming

Sustainable Manufacturing





Materials Engineering for Advanced Manufacturing

SECOND YEAR

FIRST PERIOD

Materials integration & joining technologies

Economy and business organisation

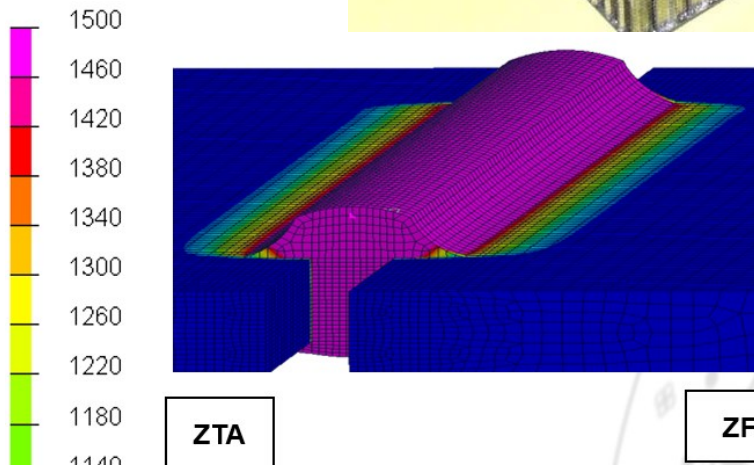
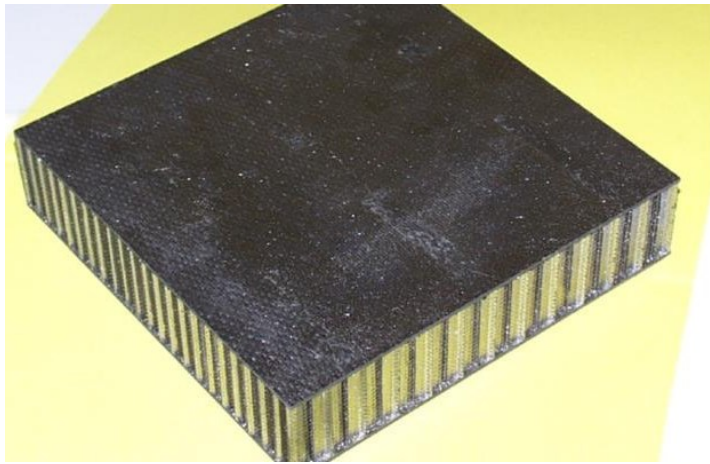
Materials and production process simulation

SECOND PERIOD

Materials & Design

Eligible lectures

Thesis (Final Project)



Percorso Internazionale



[Hello](#) [Programme](#) [Consortium](#) [Application](#) [Careers](#) [Contact](#)



Erasmus Mundus Joint Master in Manufacturing 4.0 by intElligent and susTAINable technologies

meta4.0 is a 2-year Master's programme fully taught in English and jointly offered by 6 universities in France, Slovenia, Norway, Germany and Italy with one primary objective, facing the future challenges of Manufacturing 4.0 by educating a new generation of students to a level of excellence in:

Digital Manufacturing / **Clean** Manufacturing / **Sustainable** Manufacturing / **Smart** Manufacturing

[Why](#) | [For me](#) | [Where](#) | [How to apply](#) | [Partners](#)



<https://www.master-meta4-0.eu/>



Strongly involved industrial partners

This Joint Master programme was defined based on the **feedback of industry**.

Industrial partners from **various sectors** ranging from the aerospace and aircraft, automotive, energy, manufacture or automation industry indeed expressed their needs and their interest in **building such an excellence programme**.



Cogne Acciai Speciali

Involving industry in meta4.0 is also a priority and will be achieved by:

Hosting meta4.0 students

for an internship or proposing an industrial related topic for the Master thesis;

Participating and contributing

to summer-schools and lectures in several courses of each specialization track: they will especially be able to tackle

Being part of the different boards

such as the recruitment board of the meta4.0 students, management board or advisory board providing expertise

meta4.0

Joint Master in Manufacturing 4.0

Year 1

Semester 1 Fundamentals on processes

30 ECTS

[Details](#)

Semester 2 Fundamentals on materials

30 ECTS

[Details](#)

Year 2

Semester 3 Specialization with 4 possible tracks

30 ECTS

[Details](#)

Semester 4 Work placement and Master thesis

30 ECTS

[Details](#)

Digital Manufacturing / Clean Manufacturing / Sustainable Manufacturing / Smart Manufacturing



Semester 2

All the students will move to **Torino (Italy)** and will start their semester around the last week of February.

The **strength of meta4.0** is to fit its graduates with the best level of knowledge on Manufacturing but also on **Materials science**. Therefore, this semester will be dedicated to **materials for advanced manufacturing**, materials design, materials forming and surface science and technology, including techniques to investigate structure and properties of materials.

Italian language classes will be available on a non-credit basis.

5 ECTS

Materials for Advanced Manufacturing

10 ECTS

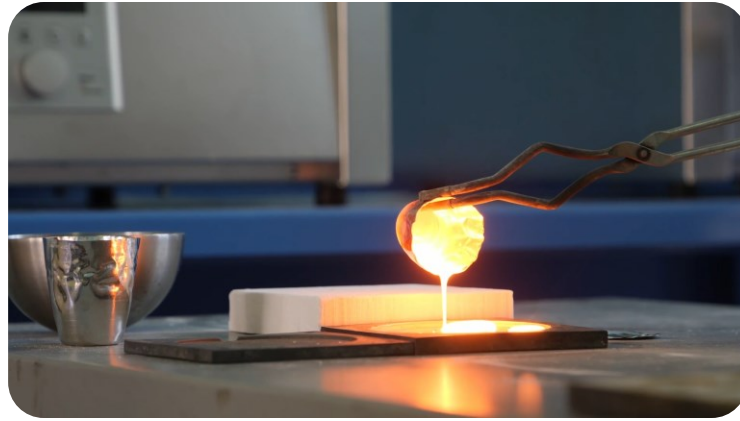
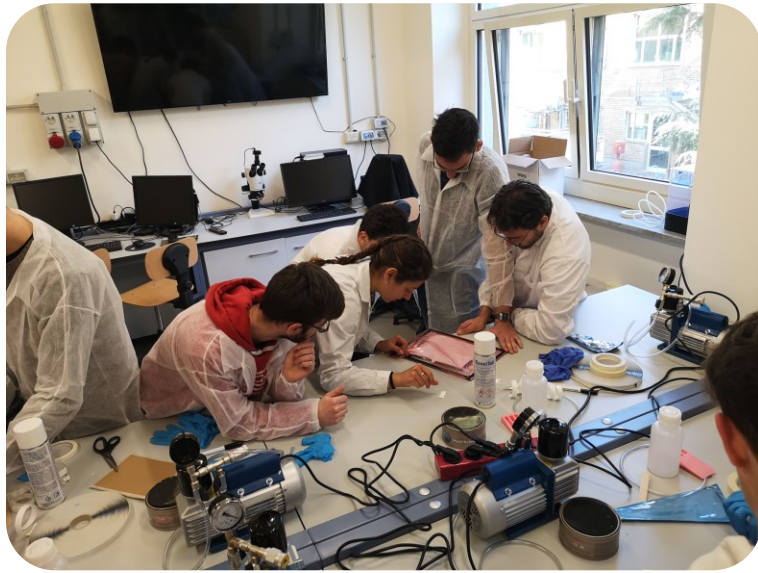
Materials & Design

10 ECTS

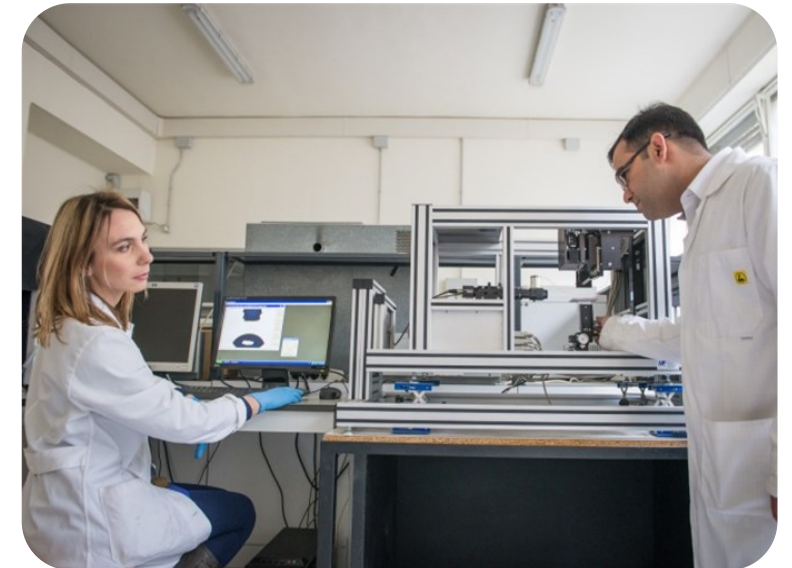
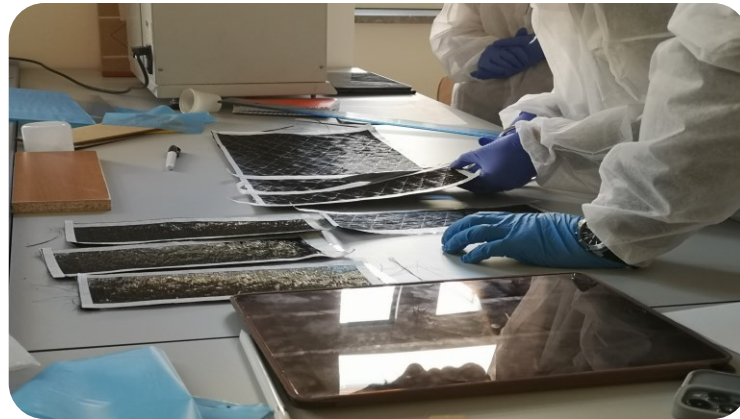
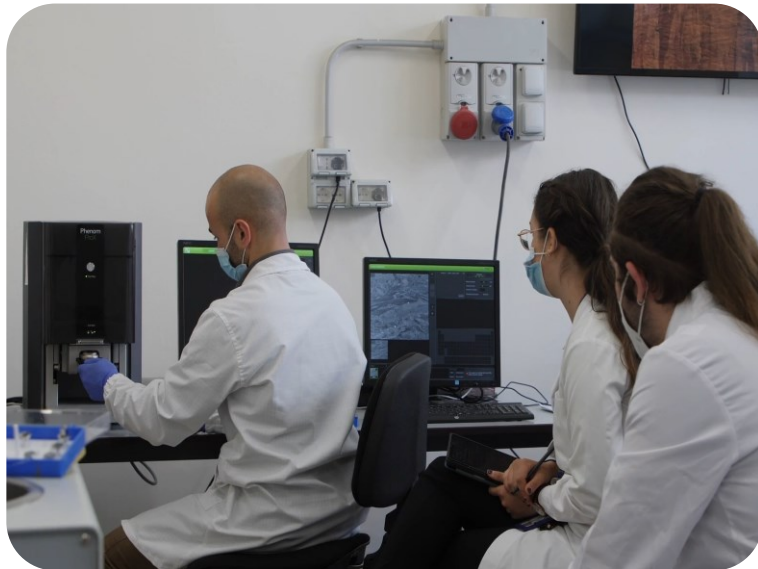
Materials forming

5 ECTS

Surface science and technology



Laboratori didattici e attività in team



Opportunità di Tirocinio, Incontri con Aziende e Visite Aziendali



Studiare all'estero – mobilità Erasmus

- Possibilità di studiare all'estero per **uno o due semestri** in Università che supportano un programma di mobilità.
- Nel caso di programmi di **doppia laurea**, si richiede allo studente di trascorrere un semestre aggiuntivo nell'Università straniera (2 semestri al Politecnico di Torino + 3 semestri all'estero).

I NOSTRI PARTNERS ERASMUS

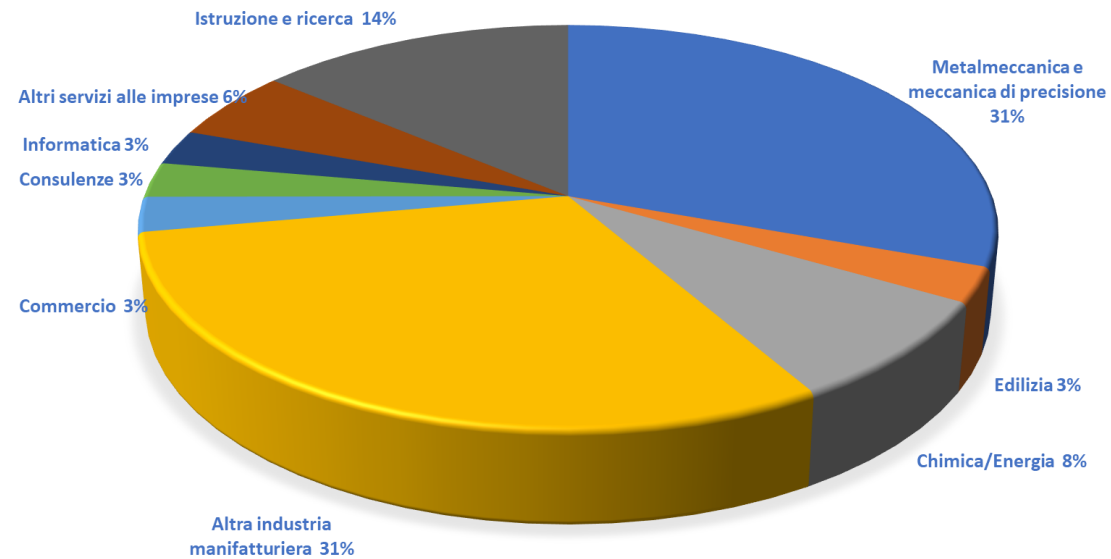
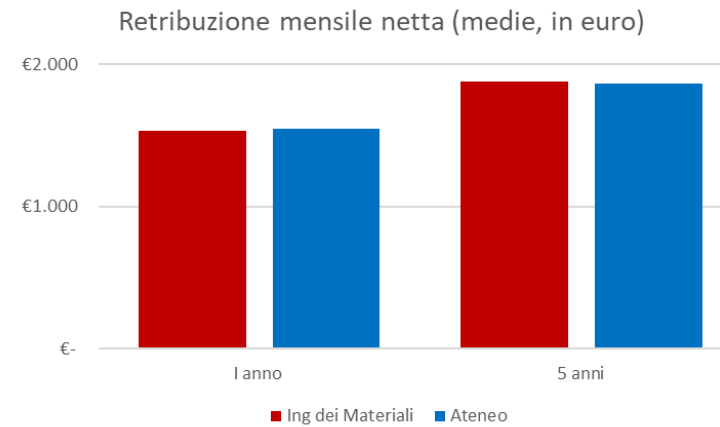
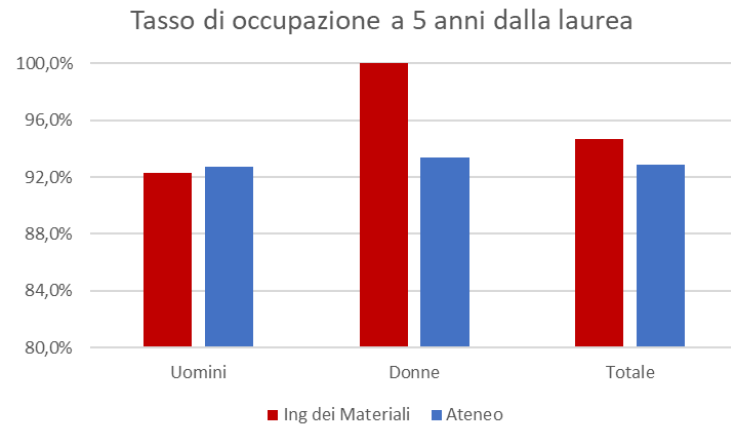


DOPPIO TITOLO



Dati occupazionali

Tasso di occupazione ISTAT
Laureati Riferimento - 2021



Università e buste paga, ecco gli atenei con le prospettive di guadagno migliori

13 MAGGIO 2020

Secondo questo studio, il **Reddito Annuale Lordo (RAL)** medio nei primi anni di carriera, dell'ingegnere chimico e dei materiali è il secondo in Italia (valore medio di 32.063 €; **+5,3% rispetto alla media nazionale**)

L'incremento tra quel che si guadagna in gioventù (25-34 anni) e in età matura (45-54 anni) dell'ingegnere chimico e dei materiali è addirittura il **migliore in Italia: 87%**

Ulteriori fonti a supporto:

<https://www.jobbydoo.it/stipendio/ingegnere-materiali>

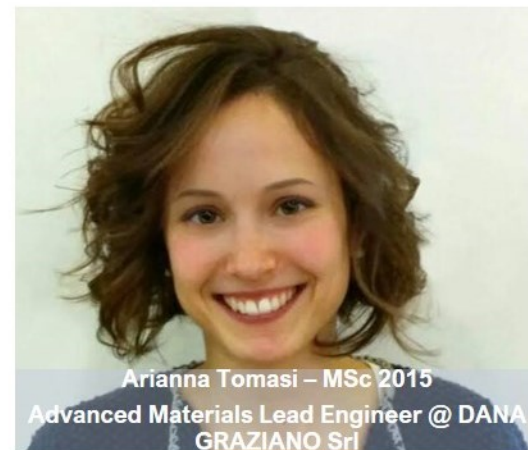
<https://www.pedago.it/blog/quanto-guadagna-ingegnere-stipendio.htm>

<https://www.teknoring.com/news/marketing/stipendi-degli-ingegneri-i-settori-in-cui-si-guadagna-di-piu/>

la Repubblica
R.it



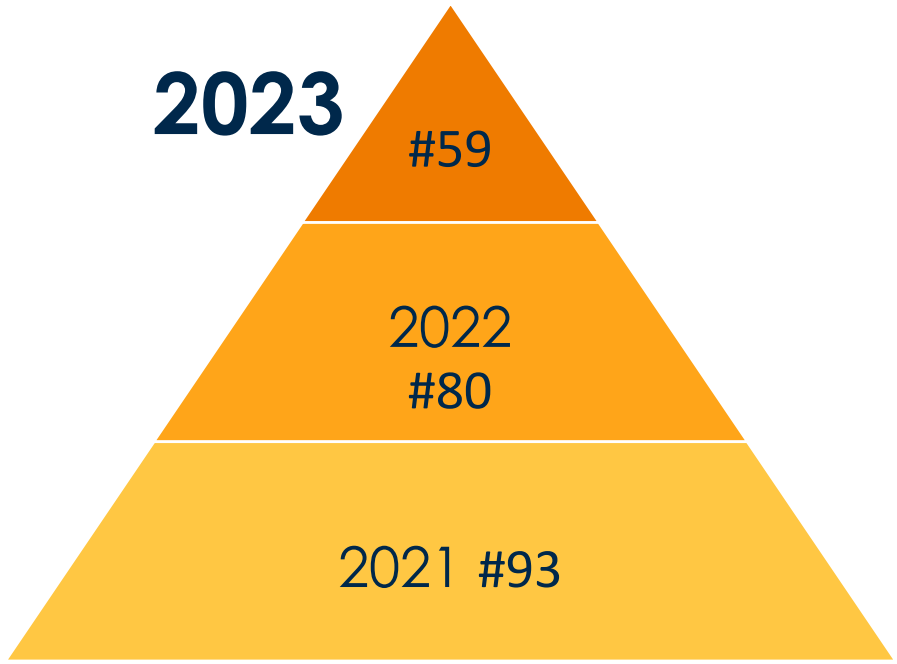
Alcuni dei nostri laureati magistrali in Ingegneria dei Materiali



Premi di Laurea & Premi di Eccellenza negli Studi



Top 60 migliori università al mondo per **Materials Sciences!**



APPLY... se non sono uno studente di Ing dei Materiali POLITICO?



- Moduli online di autoapprendimento (Scienza e Tecnologia dei Materiali + Struttura della Materia)
- Piano di studio personalizzato
- Integrazioni curriculari



Referente del Corso di Studi
Ingegneria dei Materiali

Prof.ssa Milena Salvo
referente.materiali@polito.it

Per saperne di più seguici sui nostri canali social

