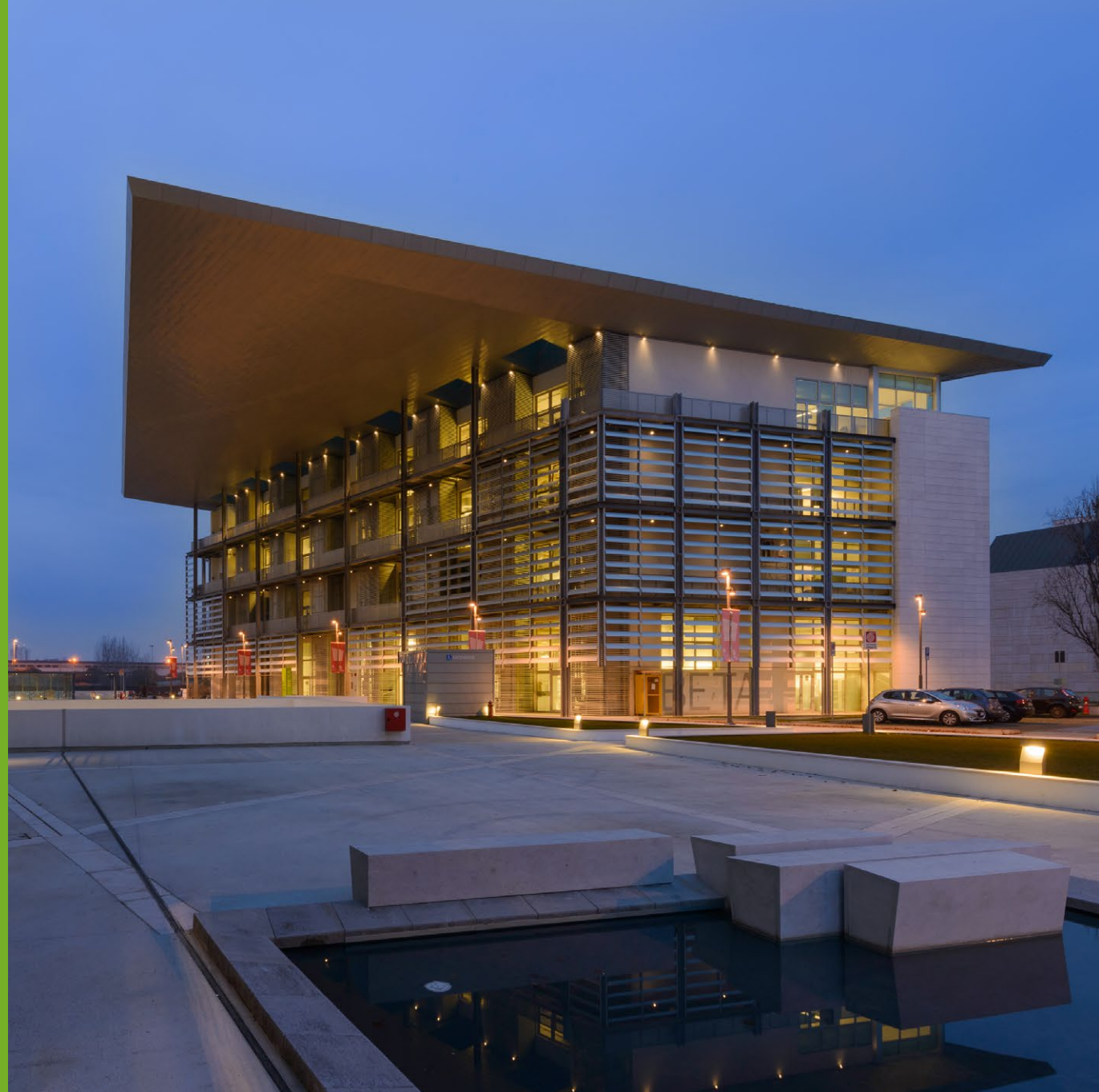




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# Department of Molecular Sciences and Nanosystems





## DSMN in numbers

- Faculty (professors and researchers): 54
- Technical and administrative staff: 28
- PhD students and post-docs: 698

**Biology**

**Chemistry**

**Materials Science**

**Physics**

**Mathematics**

**Engineering**

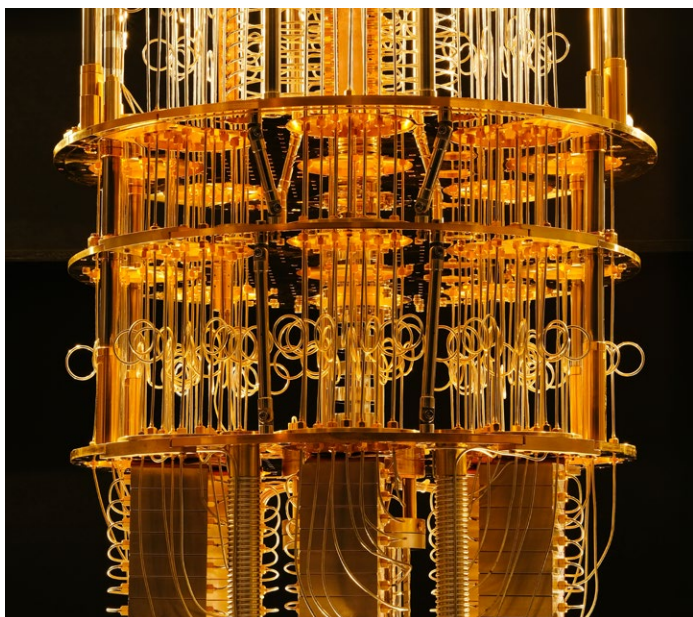


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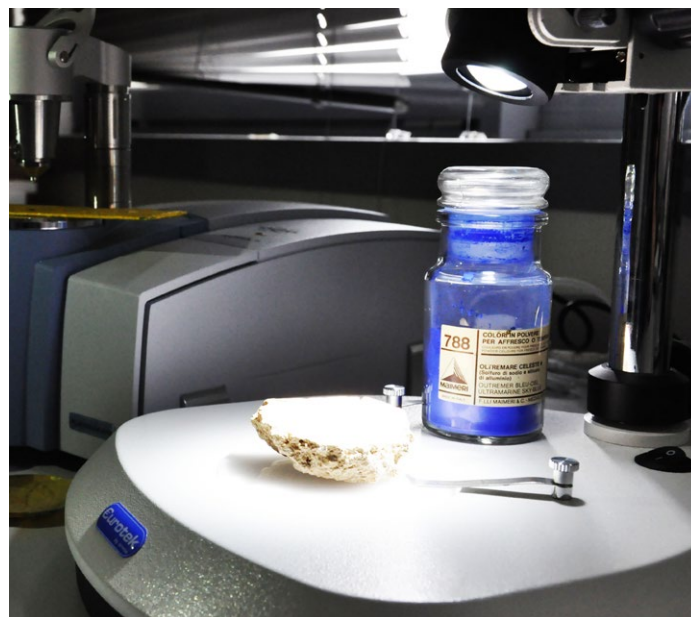
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# Courses: Bachelor's Degrees

## Engineering Physics



## Science and Technologies for Cultural Heritage



## Sustainable Chemistry and Technologies

2 curricula:

- Chemical Sciences and Technologies
- Sciences and Technologies of Bio and Nanomaterials





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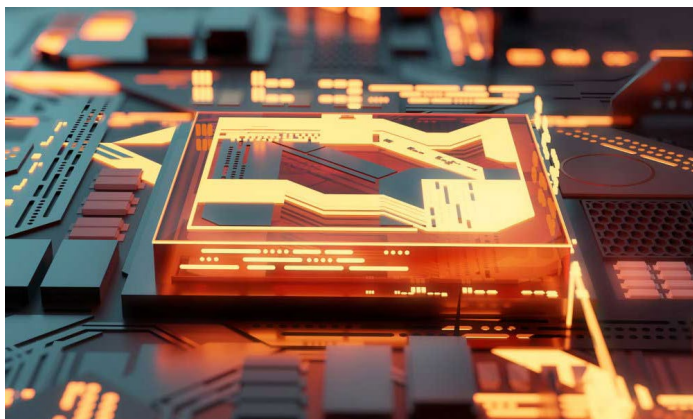
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# Courses: Master's Degrees

## Engineering Physics

3 curricula:

- Quantum Science and Technology
- Physics of Finance and Economics
- Physics of the Brain



## Science and Technology of Bio and Nanomaterials



## Sustainable Chemistry and Technologies

3 curricula:

- Biomolecular Chemistry 
- Chemistry 
- Industrial Chemistry 





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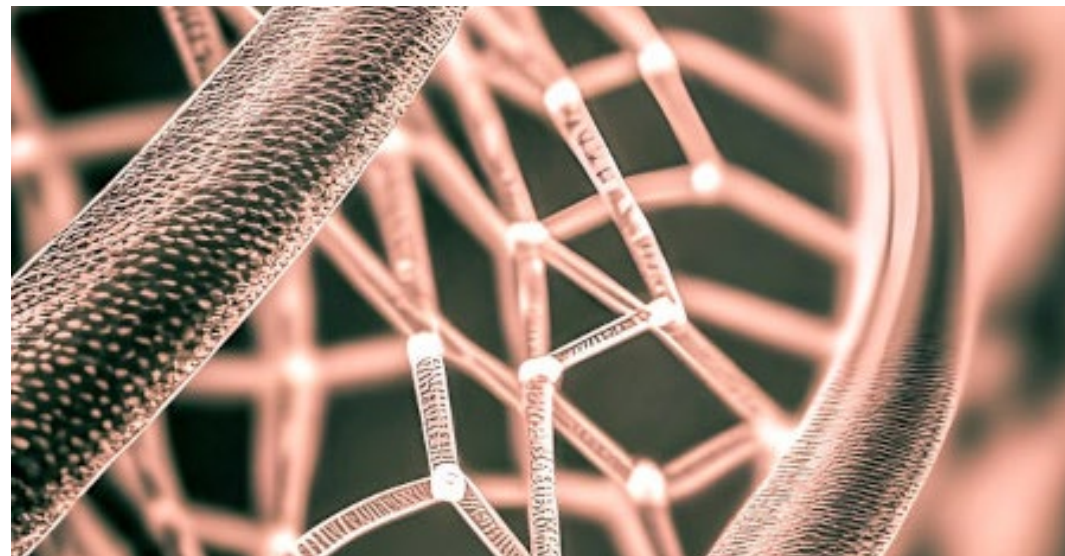
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# PhDs and advanced training courses

## PhD in Sustainable Chemistry



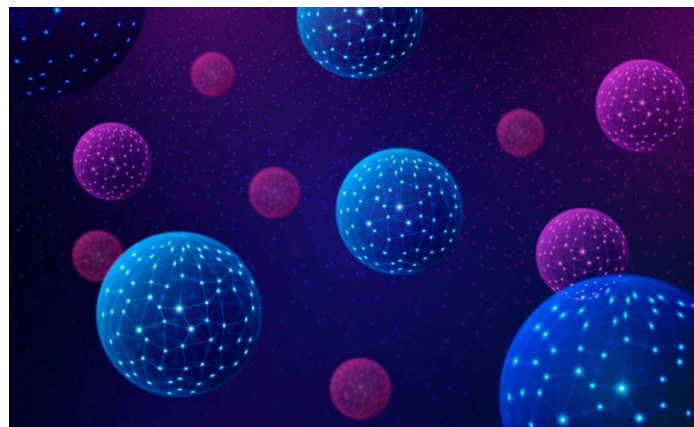
## PhD in Science and Technology of Bio and Nanomaterials in partnership with Kyoto Institute of Technology



## Participation in three PhDs of national interest



**Design for Made in Italy:  
Identity, Innovation and  
Sustainability**



**Catalysis**



**Scientific, Technological  
and Social Methods  
Enabling Circular  
Economy**



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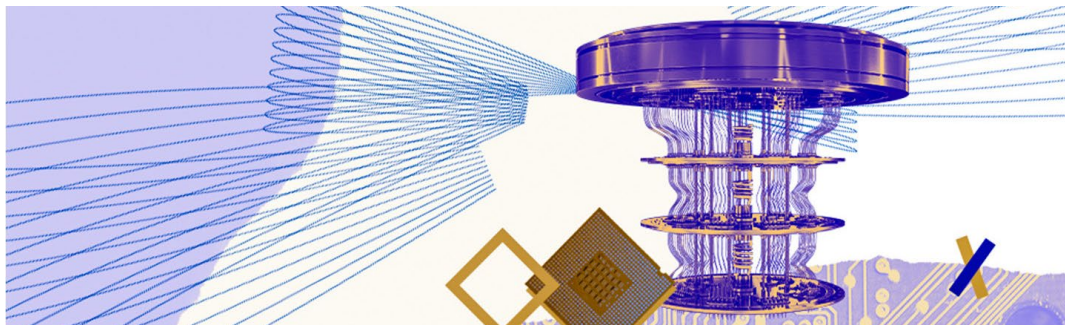
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# Professional Master's Programmes 1st and 2nd level

## Master in Quantum Machine Learning

Executive Master - First level

In collaboration with the Department of Economics, the Venice School of Management and the Department of Environmental Sciences, Computer Science and Statistics



## Master in Economia Circolare per il settore Manifatturiero di Domani

Executive Master - Second level

In collaboration with the Venice School of Management.





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Research

# Sustainable chemistry for industry and the environment within circular economy paradigms





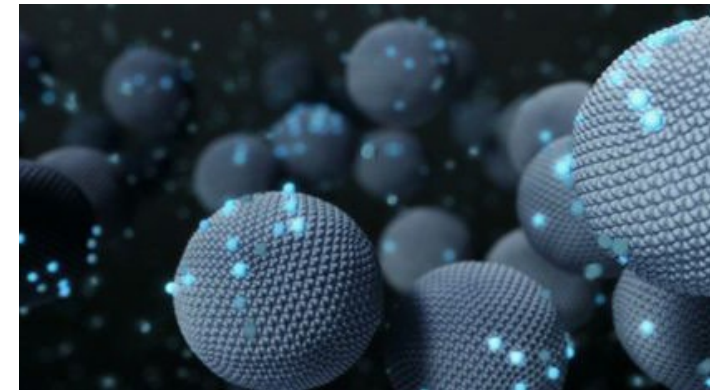
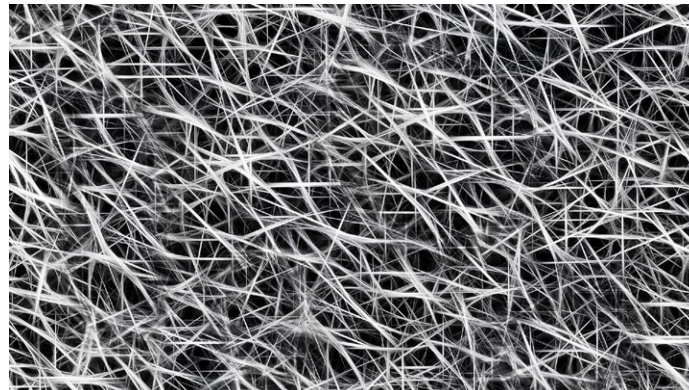
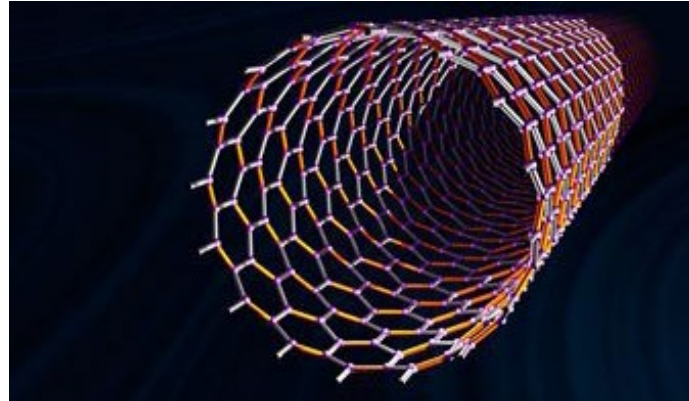


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Research

**Nanobiomaterials  
and nanosystems  
for sensor,  
biomedical,  
environmental,  
energy and  
technological  
applications**



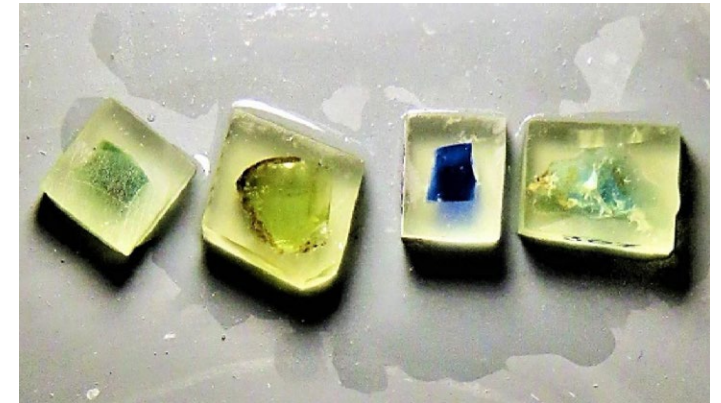


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Research

# Innovative technologies, materials and analytical methods for cultural heritage





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**Research**

**Networks and  
complex systems**

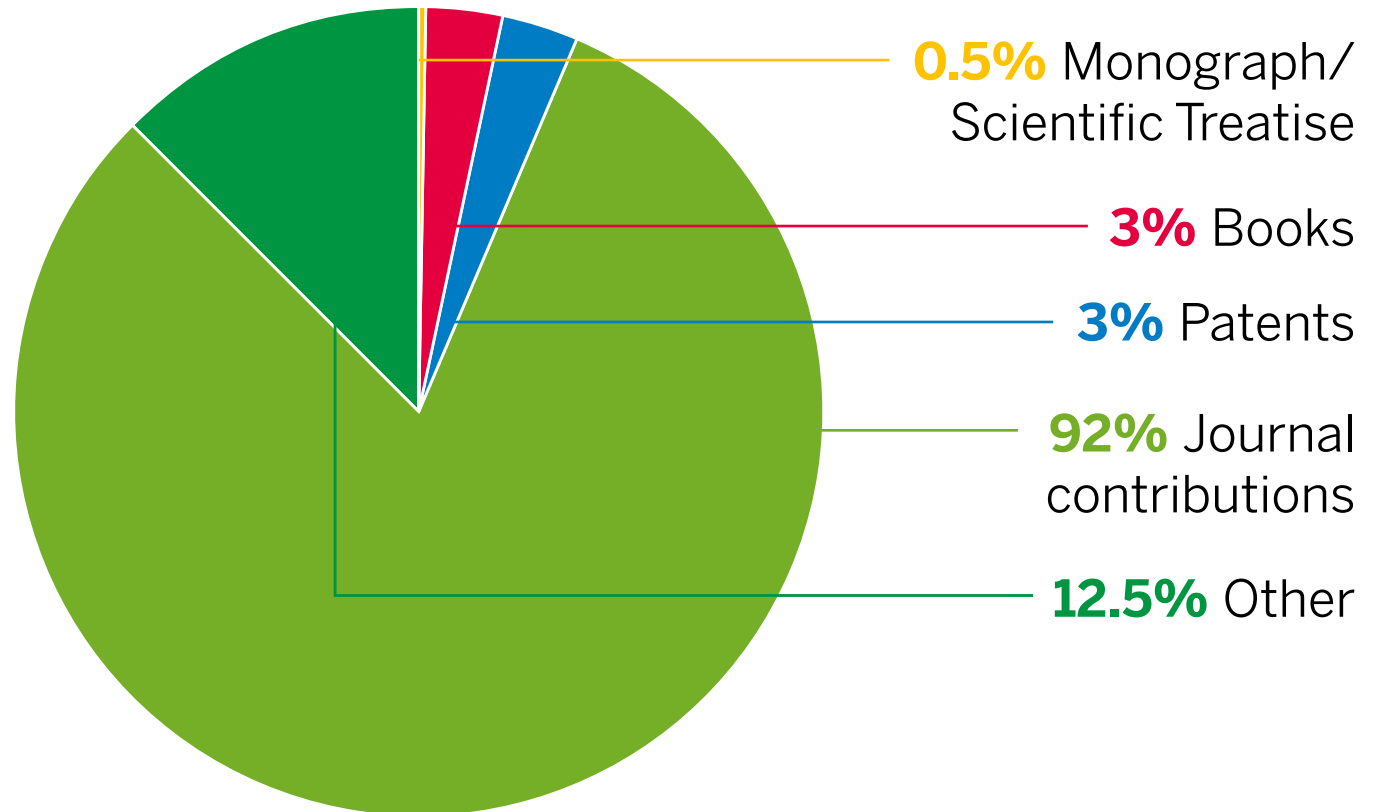


**Ultrafast  
dynamics in  
condensed  
matter**





**Since 2015,  
2,500+  
publications -  
multidisciplinary  
and with  
international  
outreach**





**Management of research activities for third parties or of national/EU-funded projects; arrangement of research agreements**



Since 2018, a total of 48 national and 14 international projects have been funded

**Ongoing:**

**38 national projects**  
for a total DMSM budget  
of € 15,245,791

**9 international projects**  
for a total DMSM budget  
of € 1,433,880

**Total:**  
**€ 13,379,671**



## Technology transfer, patenting and spin offs



33% of Ca'Foscari  
spin offs

67 patents since 2015

### 3 active spin offs:

**Biofuturemedicine Srl:**  
diagnostic testing kits

**Cheers Srl:** eco-design,  
automotive, energy saving

**Arzanya:** biotechnology for  
biomolecular selection

## Public Engagement

- events with the participation of local companies, citizens, students
- collaborations with local cultural and strategic associations

## Schools

Support for public engagement and high school education activities

- training courses for high school teachers
- internships for high school students





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# University corporate partnerships

## Collaborations:

- Stages and internships
- Research fellowships
- Industrial PhDs
- Joint laboratories
- Joint grant applications

## For businesses:

- Research, analysis and testing on demand
- Consultancy
- Patent licensing
- Spin offs







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# Network





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