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# CoACH



Horizon 2020  
European Union Funding  
for Research & Innovation

## Advanced glasses, Composites And Ceramics for High growth Industries European Training Network (ETN) - [www.coach-etn.eu](http://www.coach-etn.eu)

CoACH provides career development and training opportunities for **researchers who are in their first 4 years** of research career in both the public and private sectors.

Politecnico di Torino coordinates the CoACH project, funded by the European Commission through the Marie Skłodowska-Curie Innovative Training Networks action (MSCA-ITNs).

CoACH is an inter/multi-disciplinary and inter-sectorial programme as it includes **5 academic partners and 10 private companies, from seven different European countries**. CoACH will promote international excellence in glass, ceramic and composite science and technology, modelling, design, characterization and commercialization of advanced glass, ceramic and composite based products.

The 15 recruited PhD researchers will benefit from direct access to state-of-the-art research equipment and expertise. They will be trained in creative, independent problem solving under time and resource constraints typical of a scientific and technical working environment in continuous contact with the **industrial world**.

The CoACH ETN will provide training-through-research in:

- Glasses and composites for **HEALTH** care industries
- Glasses, ceramics and composites for the **ENERGY** production and **ICT** industries
- **ENVIRONMENTALLY**-friendly, low cost glass, ceramic and composite materials

### WHO CAN APPLY?

**Applicants** shall, at the time of recruitment by the host organisation, be in the first **four years** (full-time equivalent research experience) of their research careers and not yet have been awarded a doctoral degree.

**Full-Time Equivalent Research Experience** is measured from the date when a researcher obtained the degree which would formally entitle him/her to embark on a doctorate.

**Mobility Rule:** at the time of recruitment by the host organisation, researchers must not have resided or carried out their main activity (work, studies, etc.) in the country of their host organisation for more than 12 months in the 3 years immediately prior to the recruitment date. Compulsory national service and/or short stays such as holidays are not taken into account.

**Fellowship gross amount:** living allowance (3110 €/month, country correction factor to be applied) + mobility and family allowance (600 or 1100 €/month depending on the researcher's family situation).



POLITECNICO  
DI TORINO





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### 15 OPEN PhD VACANCIES (36 month positions)

## VACANCIES

HOST INSTITUTION: **Politecnico di Torino, Italy**

- Design, processing and characterisation of glass fibres and coatings for health care industries
- Design, processing and characterisation of innovative smart coatings for harsh environment
- Design, synthesis and characterisation of glass and ceramic based materials for SOEC technologies

HOST INSTITUTION: **University of Erlangen-Nuremberg, Germany**

- Design, processing and characterisation of mesoporous glass containing coatings with therapeutic ion release capability
- Novel geopolymers incorporating silicate waste

HOST INSTITUTION: **University of Rennes, France**

- Synthesis and characterization of new glasses and glass-ceramics materials for thermoelectricity

HOST INSTITUTION: **Università degli Studi di Padova, Italy**

- Development of low cost waste-derived sintered glass-ceramics for energy saving and recovery

HOST INSTITUTION: **Institute of Physics of Materials, Czech Republic**

- The role of bi/material interface in integrity of layered metal/ceramic
- Properties of geopolymers incorporating waste

HOST INSTITUTION: **Element Materials Technology Hitchin Ltd, England**

- Development of a methodology to relate the corrosion rates with the change of the effectiveness of the coating of the composite pipe over the life span of a product
- Optimising smart coating materials for harsh (i.e. acidic, H<sub>2</sub>S, CO<sub>2</sub>) petrochemical environments

HOST INSTITUTION: **Colorobbia Consulting s.r.l., Italy**

- Development and characterization of nanostructured hybrid materials (ceramic/polymer) and coatings

HOST INSTITUTION: **Nanoforce Ltd, England**

- Development and processing of nanostructured materials, including thermoelectrics
- Processing of novel glasses, ceramics and composites by SPS

HOST INSTITUTION: **European Thermodynamics Ltd, England**

- Modelling and constructing devices, including innovative joining of high temperature thermoelectrics

CoACH is a 4 year project, **starting date January 1st, 2015**. This project has received funding from the European Union's Horizon 2020 research and innovation programme under the **Marie Skłodowska-Curie** grant agreement No 642557.



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