

11 PhD and 4 Postdoc positions available within the Marie Curie Initial Training Network SHeMat - Self-healing materials: from concepts to market

Description of the project:

SHeMat aims to bridge the gaps in knowledge and understanding for the most promising self-healing materials. The research is carried out at different scales: From paper studies to process studies on a laboratory scale and industrial applications. The research includes the development and research of materials with self-healing functions among the following material classes: polymers, polymer composites, concrete and ceramics. For achieving the ambitious goals of the project a unique and interdisciplinary training will be provided to experienced and mainly young researchers. They will work in an excellent scientific environment to master the concepts, to quantify healing, and to learn how to position these materials in the application fields. Additionally there will be trainings concerning market requirements, e.g. sustainable assessment, standardization, trade-off- and cost-analysis as well as key qualification trainings like language courses, project management etc. The project SHeMat "Training Network for Self-Healing Materials: from Concepts to Market" is funded under the Marie Curie Action – Initial Training Networks (ITN).

Eligibility Conditions for Postdocs & PhDs (at the time of selection)

Postdocs:

- The research experience may not exceed 5 years at the time of the appointment (full time equivalent)
- Applicants must have a doctoral degree or must have at least 4 years full-time equivalent research experiences

PhDs:

- Research experiences must not exceed 4 years and applicants must not yet have acquired a PhD degree

General Conditions:

- Applications of researchers of any nationality are welcome
- The candidate must not have spent more than 12 months during the last 3 years in the country of the team for which he/she would like to be recruited; he/she must not be of the same nationality as that of the recruiting team.
- Researchers must not be a national of the country of their host institution
- The recruitments will be realized on a competitive basis (based on the application and on an interview if pre-selected).

The following skills are required:

- Fluency in English
- Ability to work well in an interdisciplinary team
- Flexibility to move within the project

The PhD-candidates and Postdocs will get full salary employment contracts with all social securities (assurances) of European standard; moreover, different benefits (for instance, travel allowance) will be paid.

Applications for PhD- or Postdoctoral Positions

- Application in English/cover letter
- CV (with address, e-mail address, birth date and place, nationality, photo, scientific education, in particular also a list of the attended Bachelor and Master courses)
- Certificates of the Diplomas/Degrees obtained (Bachelor's, Master's, PhD or equivalent graduate studies)
- Outstanding marks and benefits
- A letter of motivation mentioning the scientific experience, knowledge, competences, goals. It should also include an expressed option why choosing this ITN and the respective position and how the ITN will benefit from the candidate's expertise and skills. (400 words)
- Names of two persons as references as minimum

Candidates are invited to contact the scientist-in-charge responsible with the recruitment for the respective host institution. To find out more about individual positions offered, the respective host institution, scientist-in-charge and the planned start of the employment, click [here](#).

According to the European gender politics we encourage in particular the candidacy of women.

Deadline for applications: 30 January 2012