This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 860911

11 PhD positions in polymer chemistry, processing, modeling, properties available within VITRIMAT ITN

Training in VITRImers: high performance MAterials and Trainees for cutting-edge industrial applications			
Grant agreement ID:	860911	Call reference:	H2020-MSCA-ITN-2019
Start date:	1st March 2020	Duration:	48 months

1. Identification

- ORGANISATION/COMPANY: VITRIMAT — H2020-MSCA-ITN-2019

  Project nr. 860911
- RESEARCH FIELD: Chemistry

  Macromolecular chemistry; Polymer chemistry; Plastics
- RESEARCHER PROFILE: First Stage Researcher (R1)
- APPLICATION DEADLINE: 20/04/2020 12:00 CET
- LOCATION: Multiple locations, see work locations below.
- TYPE OF CONTRACT: Temporary
- JOB STATUS: Full-time
- HOURS PER WEEK: Full time
- OFFER STARTING DATE: 01/09/2020
- EU RESEARCH FRAMEWORK PROGRAMME: H2020 / Marie Skłodowska-Curie Actions
- MARIE CURIE GRANT AGREEMENT NUMBER: 859937

2. Presentation

The VITRIMAT project is a 2.8 million € Marie Skłodowska-Curie Innovative Training Network (ITN) project funded by the European Commission, under the H2020 program, and is coordinated by the University Claude Bernard Lyon 1. The project aims at strengthening the European leadership on vitrimers by combining the expertise and technologies of 6 academic partners-pioneers in vitrimers and advanced composite materials - with 1 national technical center and 8 industrial partners (including 2 beneficiaries and 1 SME) that are world leaders in the chemistry, adhesives, thermosets and composites for consumer goods, construction and automotive applications.

The goal of the VITRIMAT project is to train 11 Early-Stage Researchers (ESRs) in these sectors which represent high employability. The recruited ESRs will acquire a broad range of advanced and transferable skills within a unique, innovative, multidisciplinary and inter-sectoral training environment. Regular workshops, training schools and secondments to other EU academic and industrial partners will allow them to develop a broad range of valuable transferable skills. A very attractive salary and benefits package is offered to successful applicants.

A brief overview on vitrimer materials and their applications can be accessed with the following links:
www.youtube.com/watch?v=Rp0wP0IjxMs
https://en.wikipedia.org/wiki/Vitrimers

3. Open positions

The VITRIMAT project has 11 ESR positions available within 9 Recruiting Institutions:

- University Claude Bernard Lyon 1, Lyon, France
  ESR1 - High throughput synthesis of nanostructured vitrimer-based thermoplastics
  ESR2 - Processing and chemical modification of polyolefin vitrimers by reactive extrusion

- Ghent University (PCR), Ghent, Belgium
  ESR3 - Fast processing of vitrimer materials based on inventive chemistry platforms

- Ghent University (MRC), Ghent, Belgium
  ESR4 - Processing and mechanical characterization of recyclable vitrimer composites for automotive applications

- University of the Basque Country, San Sebastian, Spain
  ESR5 - Sustainable isocyanate-free polyhydroxyurethane vitrimers for foams applications
  ESR6 - Dichalcogenide-based vitrimers as debond-on-demand adhesives and scratch-resistant coatings

- Ecole Supérieure de Physique et de Chimie Industrielles, Paris, France
  ESR7 - Multiscale characterization of phase-separated polyolefin vitrimers with tuneable network structure

- Eindhoven University of Technology, Eindhoven, The Netherlands
  ESR8 - Theory and modeling of structural and mechanical relaxation in vitrimer materials

- University of Freiburg, Freiburg, Germany
  ESR9 - Highly ordered nacre-inspired vitrimer nanocomposites with light-adaptive properties

- Recticel N.V, Wetteren, Belgium
  ESR10 - Synthesis of recyclable flexible and rigid PU foams from upscalable functional vitrimer building blocks

- Covestro Deutschland AG, Leverkusen, Germany
  ESR11 - Multifunctional vitrimer building blocks for the synthesis of recyclable PU materials for a circular economy

Please see our website for more information on each project and for general enquiries:
https://www.vitrimat.eu/Recruitment.html

4. Benefits

Marie Sklodowska-Curie PhDs are typically paid a competitive gross salary of **3,270 € per month or an equivalent gross salary and benefits**, adjusted for the hiring country, in some cases accompanied by an additional Mobility Allowance, and, for researchers who have a family*, a Family Allowance of 500 € per month. **All amounts are subject to employers and employees deductions** and taxes, and the exact (net) salaries are dependent on local tax regulations and on the country correction factor (to allow for the difference in cost of living in different EU Member States). Benefits associated with each ESR position are specified in the individual offers descriptions available on https://www.vitrimat.eu/Recruitment.html and will be confirmed upon appointment."

ESRs will also get access to funds covering Research, Networking and Training costs. ESRs will also be enrolled for PhD studies at institutions which are part of the consortium. Funding will cover the entire 36-month period. In addition to individual scientific projects, all fellows will benefit from further continuing education, which includes secondments, a variety of training modules as well as transferable skills courses and active participation in workshops and conferences.

*Family is defined as persons linked to the researcher by (i) marriage, or (ii) a relationship with equivalent status to a marriage recognized by the national legislation of the country of the beneficiary or of nationality of the researcher, or (iii) dependent children who are actually being maintained by the researcher; family status is determined at recruitment and does not evolve.

5. Eligibility criteria

To satisfy the eligibility requirements set for an Early Stage Researcher funded by the Marie Skłodowska-Curie programme, the applicant must comply with the two following criteria:

1. The applicant must have — at the date of recruitment — **less than 4 years of a research career**, and **not have a doctoral degree**. The 4 years are measured from the date when they obtained the degree which would formally entitle them to embark on a PhD, either in the country where the degree was obtained or in the country where the PhD is provided.
2. The applicant — at the date of recruitment— **should not have resided in the country where the research training takes place for more than 12 months in the 3 years** immediately prior to recruitment, and **not have carried out their main activity** (work ,studies, etc.) in that country. For refugees under the Geneva Convention (1951 Refugee Convention and the 1967 Protocol), the refugee procedure (i.e. before refugee status is conferred) will not be counted as 'period of residence/activity in the country of the recruiting beneficiary'.

6. Common requirements for all ESRs positions

REQUIRED EDUCATION LEVEL	Master Degree or equivalent
REQUIRED LANGUAGES	ENGLISH: Excellent

REQUIRED SKILLS
The candidate should have strong social abilities allowing an active participation to the European network, fruitful exchanges with other students and researchers, and an excellent integration in the team of the hiring research group. He/She should be ready and able to travel in Europe for the secondments, training schools, workshops and network meetings.

Detailed requirements per open position are available on the Recruitment page of the VITRIMAT website https://www.vitrimat.eu/Recruitment.html

7. Selection criteria

The VITRIMAT recruitment process will be an open, transparent, impartial and equitable recruitment procedure performed in accordance with the provisions of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers, and ensuring that no conflict of interest exists in or arises from the recruitment. The selection of the applicants will be made on the basis of their scientific skills and the relevance of their research experience, the impact of the proposed training on their researcher's career and a fair gender representation.

8. Application process

The complete application package is available on the Recruitment page of the VITRIMAT website https://www.vitrimat.eu/Recruitment.html

9. Additional comments

The VITRIMAT project is committed to respecting the confidentiality of the information provided by the applicant: personal data collected for the purpose of the recruitment process will be processed for the sole purposes connected with and instrumental to the selection procedure and the eventual management of the job contact. The complete Job Applicant Privacy Notice can be found on the Application form in the Application package available on the VITRIMAT website.