

EURAXESS

OFFER POSTING

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| 1. Basic information
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| Title | 1 PhD position (Early Stage Researcher - ESR) available within the EUNICE Alliance that will be hosted under the auspice of University of Mons (Mons, Belgium) and Université Polytechnique Hauts-de-France (Valenciennes, France) in the frame of Cold-Sintering of Ceramic-Polymer Composites |
| Offer Description  | **EUNICE**, the European University for Customised Education, is designed to solve social and economic challenges, both globally and locally ([EUNICE (eunice-university.eu)](https://eunice-university.eu/)). The alliance is nurtured by seven universities’ intellectual and infrastructure input, resulting in a solid network of crossed interactions between educational institutions, industry and business partners, as well as other social, cultural, artistic and sports stakeholders. By promoting in-depth collaboration across research and education, as well as nurturing innovation and entrepreneurship, the University of Mons and the Université Polytechnique Hauts de France are joining their effort to offer a PhD position (36 months) under the EUNICE alliance. The global vision between the University of Mons and the Université Polytechnique Hauts-de-France is to support innovation and entrepreneurship on the development of advanced ceramic/polymer materials using cold-sintering as an innovative approach. The Cold-Sintering technology represents an emerging platform to densify ceramics, through a transient liquid phase with the application of uniaxial pressures of 70 to 500 MPa **over a temperature range between 150-300oC at a relatively short times** (from few minutes to an hour), **enabling to implement the processing of ceramics with organic polymers into a single-step process.**  A special emphasis will be made on exploring **key-families of ceramic-polymer composites** with enhanced properties to the CS process, in which the marriage between ceramics and polymers is highly demanded **for biomedical applications.** The University of Mons and the Université Polytechnique Hauts-de-France will offer to one ESR the opportunity of being awarded with a joint-doctoral degrees in the realm of Polymer and Material Science. The ESR will carry out a 36-month individual research project under a stimulating joint supervision. The main part of the PhD project will be carried out between both institutions at equal shared time. |
| Researcher Profiles | [x]  First Stage Researcher (R1)PhD candidate or equivalent. Early stage researcher with less than 4 years FTE research experience.[ ]  Recognised Researcher (R2)PhD holder or equivalent, not yet fully independent. Experienced Researcher with more than 4 years FTE research experience or has a doctoral degree.[ ]  Established Researcher (R3)Established Researcher with a developed level of independence. Experienced Researcher with more than 4 years FTE research experience or has a doctoral degree.[ ]  Leading Researcher (R4)Leading his/her research area or field. |
| 1. Research field *Please select main research field and sub research field (optionally)*
 |
| [ ]  Agricultural sciences | Please select |
| [ ]  Anthropology | Please select |
| [ ]  Architecture | Please select |
| [ ]  Arts | Please select |
| [ ]  Astronomy | Please select |
| [ ]  Biological sciences | Please select |
| [x]  Chemistry | Organic chemistry |
| [ ]  Communication sciences | Please select |
| [ ]  Computer Science | Please select |
| [ ]  Criminology | Other |
| [ ]  Cultural Studies | Please select |
| [ ]  Demography | Other |
| [ ]  Economics | Please select |
| [ ]  Educational sciences | Please select |
| [x]  Engineering | Please select |

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| [ ]  Environmental science | Please select |
| [ ]  Ethics in health sciences | Other |
| [ ]  Ethics in natural sciences | Other |
| [ ]  Ethics in physical sciences | Other |
| [ ]  Ethics in social sciences | Other |
| [ ]  Geography | Please select |
| [ ]  Geosciences | Please select |
| [ ]  History | Please select |
| [ ]  Information science | Please select |
| [ ]  Juridical sciences | Please select |
| [ ]  Language sciences | Please select |
| [ ]  Literature | Please select |
| [ ]  Technology | Please select |
| [ ] Religious sciences | Please select |
| [ ] Sociology | Please select |
| [ ] Psychological sciences | Please select |
| [ ] Neurosciences | Please select |
| [ ] Pharmacological sciences | Please select |
| [ ] Mathematics | Please select |
| [ ] Philosophy | Please select |
| [ ]  Medical sciences | Please select |
| [ ]  Political sciences | Please select |
| [ ]  Physics | Please select |
| 1. Hiring information and work location
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| Type of contract | **Temporary** |
| Jobs status | Full-time |
| Hours per week | Click here to enter text |
| Application deadline | 31/01/2022 |
| Envisaged starting date | From 01/09/2022 |
| How to apply | Email : Website : <http://www.smpc.be> or <https://web.umons.ac.be/en/recherche/le-doctorat/search-a-thesis-topic/> |
| Department / address | Multiple locations, more information about work locations at <https://web.umons.ac.be/en/recherche/le-doctorat/search-a-thesis-topic/> |
| Contact person email | Click here to enter text |
| Phone | Click here to enter text |
| Number of positions available | 1 |
| Is the job funded through a EU Research Framework Programme ? Not funded by an EU programmeReference Number : |
| [ ]  Science4Refugees (Find out more on [Science4Refugees](https://euraxess.ec.europa.eu/jobs/science4refugees)) [ ]  Is the Job related to staff position within a [Research Infrastructure](http://ec.europa.eu/research/infrastructures/index_en.cfm?pg=about" \t "_blank)?  |

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| 1. Requirements
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| Required education level | [ ]  Bachelor Degree or equivalent[x]  Master Degree or equivalent[ ]  PhD or equivalent |
| Main field education | Chemistry, Chemical Engineering & Materials |
| Skills / Qualifications  | Ability for research management, dissemination, communication with colleagues and supervisors, strong teamwork spirit, creativity, problem solving and attention to safety. |
| Specific Requirements | We welcome applications from highly motivated candidates of any nationality completing the following requirement(s): * The candidate shall have accomplished exceptional records during the master degree or be able to demonstrate them whether the master degree has not been granted.
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| Required Languages | [ ]  French, level : Please select[x]  English, level : Excellent[ ]  German, level : Please select[ ]  Other language, level : Please select[ ]  Other language, level : Please select[ ]  Other language, level : Please select |
| Required Research Experience | Research experience in the academic or industrial sector will be considered |
| Year of experience | [x]  1-4[ ]  4-10[ ]  More than 10 |
| 1. Additional info
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| Benefits | 1. 3 years full time employment contract. All amounts are subject to employers and employee deductions and taxes, and the exact (net) salaries are dependent on local tax regulations and on the country correction factor (between France and Belgium).
2. The ESR will be admitted as a doctoral student and registered at both universities.
3. Acquisition of advanced research skills on chemistry development within a network combining an interdisciplinary, international and intersectoral environment. In particular, advanced research skills in organic chemistry, green chemistry, catalysis, polymer engineering, renewable products, polymer latexes, coatings, adhesives, foams and composites, ceramics each directly related to current challenges in the technology envisioned.
4. A well-structured training program consisting of transferable skill courses, workshops, social events and networking with strong industry participation.
5. Training in laboratory conduct and best practices in research.
6. Participation in dissemination, exploitation and communication activities.
7. Broadening their professional network and enhancing their future research career prospects for their consolidation into Eunice Alliance. They will have the scientific recognition, knowledge, and skills to sustain potentials collaboration and develop new research ideas for future research projects.
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| Eligibility criteria | The selection criteria will be: Professional/scientific experience (Wt: 40%), motivation and recommendation letters (Wt: 20%), interview (Wt: 40%).  |
| Selection process | The selection process will be in accordance with the European Charter for Researchers (<https://euraxess.ec.europa.eu/jobs/charter/european-charter>) and the European Code of Conduct for recruitment of researchers ([https://euraxess.ec.europa.eu/jobs/charter/code)](https://euraxess.ec.europa.eu/jobs/charter/code). Please find further details on the selection process at <http://www.smpc.be/> |
| Additional comments | **APPLICATION PROCESS:** Applications must be filed on-line through the smpc website <http://www.smpc.be/> with the following supporting documents in a single PDF file: a) a digital copy with all academic certificates and academic records in the respective official transcription in Englishb) a detailed CV (including publications, relevant skills and experience) and a motivation letter in English (including a statement of your research interests)c) 2 letters of recommendation (including contact details)Please find further details on the application process at <https://web.umons.ac.be/en/recherche/le-doctorat/search-a-thesis-topic/> **GENDER ASPECTS**All the partners support equal opportunities for all researchers regardless of their gender, upon the “European Charter for Researchers and the Code of Conduct” and “EU objectives for gender equality in research”.  |