The Research Institute for Cognition and Robotics (CoR-Lab) offers a full-time research position starting on April 1st, 2019.

Your Tasks

In frame of the EU Horizon 2020 Marie Skłodowska-Curie project CHARMING, “European Training Network for Chemical Engineering Immersive Learning”, an international interdisciplinary team from universities and companies will research on Mixed-Reality (Augmented and Virtual Reality) methods for teaching, training and advanced training in chemical industry. Within this program, the 15 CHARMING PhD candidates will receive both an extensive training in design and development of Mixed-Reality training, as well as in different soft-skills. In addition to direct contacts to large chemical companies, such as Arkema, BASF and Merck, the position thus offers an excellent starting point for a career, e.g. in the European chemical industry.

Your tasks in detail will be the following:

- VR-based realization of prototypical immersive training simulations for trainings of safe operation of chemical reactors and related processes in cooperation with the academic and industrial partners (30 %)
- research on and software implementation of didactic training concepts for the adaptation of the training units to the trainees (30 %)
- implementation of the developed immersive training simulations together with the industrial partners regarding validity, effectiveness and efficiency (20 %)
- 3D modelling and programming of the training simulations in Unity or Unreal Engine (20 %)

The scientific qualification in frame of the project (PhD) is desired and will be profoundly supported by the project leaders.

Your Profile

We expect

- completed pertinent scientific studies in the area of informatics/computer science or in equivalent areas of research
- experiences in the development and programming of Mixed-Reality applications
- social competences and capacity for team work
- high motivation for working in an interdisciplinary team
- high degree of autonomous and independent work
- willingness to conduct several secondments of 1-2 months at national and international project partners during the project period

You are expected to have completed a Master's degree in Computer Science or a related subject (e.g. informatics, physics, engineering, etc.). A strong interest in research on and software implementation of didactic training concepts is required. Excellent skills in design and modeling of 3D environments and in mixed reality methods (Augmented and Virtual Reality) are desired.

Preferable qualifications

- excellent skills in design and modeling of 3D environments
- experience in the development and programming of Mixed-Reality applications
- deep knowledge in 3D graphics and human-machine interaction
- experiences in the development and programming of Mixed-Reality applications
- excellent skills in design and modelling of 3D environments
- high degree of autonomous and independent work
- willingness to conduct several secondments of 1-2 months at national and international project partners during the project period

Remuneration

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). When being employed, researchers must not have resided or carried out their main activity (work, studies, etc.) in Germany for more than 12 months in the 3 years immediately prior to their recruitment. Times of military or alternative service, which stays, such as holidays, as well as times that have been required to achieve refugee status under the Geneva Convention, are not taken into account. In addition to this, the applicant is not allowed to already hold a PhD or to have worked in research more than 12 months in the 3 years immediately prior to their recruitment. This full-time equivalent after completing university education. The full-time research experience is measured in the country in which the degree has been achieved or in Germany, to enroll for doctoral studies, regardless of any prior intentions of following doctoral studies (more information: https://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-ag1820- msca_en.pdf).

Applications are handled according to the provisions of the state equal opportunity statutes. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.

Application Procedure

We are looking forward to your application until October 15th, 2018. You can apply centrally online on https://charming.etn.eu/ or by using the PDF specified below by postal mail to the address given below. Please do also use the label “CHARMING” and indicate “Preprint” when sending your application. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of a contract may differ in individual cases. The employment is designed to encourage further academic qualification. In principle, this full-time position may be changed into a part-time position, as long as this does not conflict with official needs.

Bielefeld University is particularly committed to equal opportunities and the career development of its employees. It offers attractive internal and external training and further training programmes. Employees have the opportunity to use a variety of health, counseling, and prevention programmes. Bielefeld University places great importance on a work-family balance for all its employees.

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European Training Network for Chemical Engineering Immersive Learning

Recruitment Form

Recruiting form for the EU Horizon 2020 Marie Skłodowska-Curie Project CHARMING European Training Network for Chemical Engineering Immersive Learning, Project 812716

Key dates:

1. 30-06-2018: Launch 15 ESR positions
2. 15-10-2018: Deadline for on-line application
3. 30-10-2018: Circulation list “preselected candidates”
4. 13-11-2018: CHARMING Recruitment Event
5. 20-11-2018: Circulation list “recruited CHARMING ESRs”

Personal Information

Name
First          Last

Email

Place of birth

Date of birth

Country of residence

Marital status

Eligibility check

When did you obtain your MSc degree?
☐ Between October 15th 2014 and October 15th 2018
☐ Before October 15th 2014
How many months of “equivalent research experience” do you have in the period between obtaining your MSc and January 2019?

☐ Less than 12 months
☐ Between 12 months and 24 months
☐ Between 24 months and 36 months
☐ Between 36 months and 48 months
☐ More than 48 months

In which country did you obtain your MSc?

Where have you resided during the last 3 years? [Indicate one or more countries where you have stayed?]

I hereby declare that

☐ I have not resided or carried out my main activity (work, studies, etc.) in the country of my envisioned host organisation for more than 12 months in the 3 years immediately prior to this recruitment

I hereby declare that

☐ I do not have a PhD yet

Can you corroborate a sufficient language proficiency in English (cf. TOEFL test)?

☐ yes ☐ no

For which applications are you a candidate (For a description of the positions ESR1 to ESR15, see document Recruitment Procedure or the website https://charming-etn.eu/) ? Maximum 3 positions can be applied for. List your order of preference:

First Choice:

Second Choice:

Third Choice:

Additional documents that should be provided with this form:

- Motivation Letter
- Transcripts (if available)
- Language proficiency certificates (if available)
- Letters of recommendation (if available)
I hereby declare that:

☐ In the case I’m preselected, I will be available to give a 20 minutes presentation at the CHARMING Recruitment Event in Leuven on the 13th of November 2018. Subsequently I will be examined by the Recruitment Committee. In order to cover (part of) my travel and lodging costs I will be receiving a lump sum of € 250, which will be paid by the “Envisioned” Supervisor (cf. my number one ESR position as indicated above). This reimbursement will be performed no later than 1 month after the Recruitment Event. In order to avoid delays in reimbursements, candidates are asked to keep all invoices and tickets (cf. train, plane, hotel...).

I hereby declare that:

☐ I’ve read and understood the details of the Recruitment Procedure, described in the document linked below.

Our Documents: