Job posting

Type of position
☒ scientific
☐ administrative

Target group
☒ graduates
☐ post docs
☐ other

Title
Early Stage Researcher (Marie Curie Innovative Training Network)

Institution
Inventivio GmbH, Nuremberg, Germany

Position
INTUITIVE is an Innovative Training Network under the auspices of the European Union's H2020 Marie Sklodowska-Curie actions. INTUITIVE will provide a unique research and training opportunity to students in the multidisciplinary field of haptic user interfaces, perceptual mechanisms in the brain, artificial touch in robotics, flexible electronics, and applications. INTUITIVE has now opened fifteen (15) early-stage researcher positions (ESR), with strategic research and training opportunities and unique career prospects in academia and industry.

Successful applicants will perform research and receive training at their respective host institutions as well as multidisciplinary training through two temporary multi-week transfers to partner institutions, selected to help ESRs achieving maximal gain in their professional development. The INTUITIVE project will also provide training opportunities aiming at fostering innovation and potential industrial exploitation of their research results and encourages the multi-disciplinary interaction between all 15 early stage researchers.

The researcher will work at Inventivio GmbH, a company which develops audio-tactile devices and first of its kind refreshable tactile graphics displays and will be encouraged to pursue a PhD at Karlsruhe Institute of Technology (KIT), Department of Computer Science, which is also a partner of the INTUITIVE project. The job location will be in Nuremberg, Germany.

The job is fixed term for a duration of three years (36 months), starting on July 1st, 2020.

Salary: The gross salary will be approximately 36,000 Euro per year. The researcher will receive an additional mobility allowance of approximately 7,000 Euro per year and - depending upon personal circumstances - a family allowance. These salary components have been mandated by the
European Commission and they are fixed for the three-year term. The salary components are before all deductions as required by the German tax and social security institutions. For example, both employee and employer deductions for social security will be deducted from these salary components.

**Responsibilities**

The task of the successful candidate will be to extend the foundations of the emerging area of audio-tactile user interfaces. In particular, the researcher will investigate tactile graphics user interfaces, study the interaction between humans and two-dimensional tactile graphics (consisting of binary tactile pixels) as well as three-dimensional tactile graphics. The researcher will explore the combination of haptics and audio and test, develop and extend conceptual and software components of these user interfaces. A key part of the research will consist of developing, conducting and evaluating laboratory and field studies which explore audio tactile interaction. Furthermore, the researcher will coordinate with business partners to create, test and produce tactile and audio-tactile content and participate in standardization efforts for audio-tactile content as well as audio-tactile user interfaces.

**Requirements**

Required education level: Master degree or equivalent in computer science, education or engineering.

Required languages: English excellent.

Skills/qualifications: Useful skills and qualifications include knowledge of user-centered design methods, user interface design, very good IT skills, excellent interpersonal and communication skills, self-starter mentality with 'can-do' attitude and ability to write pieces of software in a major programming language (Java, C++ or Python).

Eligibility criteria: The candidate may have any nationality; however, the Marie-Curie program mandates that the researcher must not have resided or carried out his/her main activity (work, studies, etc.) in Germany for more than 12 months in the 3 years immediately prior to his/her recruitment. The researcher should not have obtained a PhD degree and should not have more than 4 year full-time or equivalent research experience since obtaining the degree which makes the candidate eligible for starting a PhD degree.

**Application procedure (deadline etc.)**

Please send your application until May 3rd 2020 to info@inventivio.com
Contact info@inventivio.com