PhD position offered

within
EU Marie Skłodowska-Curie Initial Training Network

EYE: European Young Eye

Short description of project

EYE is a project funded under H2020-ITN-2020 call (industrial doctorate modality). EYE will provide training and professional development in Vision Sciences and Optical Imaging Technologies to 5 Early Stage Researchers (ESR). All ESR with be enrolled into the doctoral degree. The ESRs will gain knowledge, skills, and experience through experimental optical training, computational simulation, and cutting-edge clinical applications. Each ESR will spend at least 50% of the time working in the industry. The EYE project aims to analyse, simulate, improve and assess current presbyopia correction strategies in order to choose the optimal contact lens for each patient, offering new presbyopic solutions based on the eye-vision particularities of each person in a personalized way.

Participating institutions

EYE counts with the participation of the Complutense University of Madrid, UCM (Spain) , and two industrial partners, Mark'ennovy (United Kingdom), which is a leading European company specialized in the design, manufacture and sales of contact lenses and Alain Afflelou (Portugal) an optical centres group, which will allow the consortium interact directly with the presbyopic population and clinicians.

Position offered

ESR5: Development of e-Health instruments and technologies for Big Bata analysis in contact lens for presbyopia.

The prime aim of this project is to develop tools capable of collecting and monitoring clinical parameters, patient-reported outcomes and environmental conditions in a continuous manner throughout the patient's different circumstances while they wear contact lenses.

Educational requirements

Applicants should hold a Master degree in relevant disciplines (mathematics, physics, computer/biomedical engineering, engineering, artificial Intelligence, big data, statistics, etc)

Eligibility requirements
- The respective candidate must <u>not have resided in Portugal for more than 12 months within the last three years</u> (employment date being the reference date)
- The candidate needs to be in his/her first four years of his/her research career. The four years are counted from the date a degree was obtained which formally entitles to embark on a doctorate either in the country in which the degree was obtained or in the country of employment.

Skills Requirements
- Excellent English communication skills (speaking, listening, reading and writing)
- Motivation to pursue a PhD, independence and ability to collaborate and engage in a training network.
- Willingness to relocate and reside abroad for at least 3 years and to travel for secondments, training and project meetings.
- Knowledge of numerical computing software (Matlab, statistical treatment of data, R, etc), and processing and control software equipment (Apps, communications, etc) is desirable
- Experience in data and image description will be valued

Benefits
- Excellent research environment, infrastructure and resources
- International, interdisciplinary and inter-sectoral mobility opportunities
- Advanced research and transferable skills training
- Opportunity to build an extensive international professional network
- Employment for 3-years, with an attractive salary package including living, mobility and (if applicable) family allowances in accordance with the Marie Skłodowska-Curie rules for Early Stage Researchers (ESRs)

Starting date: October-December 2021 (before 15th of December 2021).

Duration: 36 months
Host Institutions: 18 months at Alain Afflelou (Portugal) and 18 months at UCM (Spain)

Contact e-mail: damadrid@ucm.es

How to apply:
Please send the following documents via e-mail:
- CV including two referees
- Copies of Master degree

Deadline for application: until fulfilled