

# Partnering Opportunity

Profile status : Published

## Research Development Request

### **H2020-MSCA-IF-2020: Researcher specialised in computer science and robotics for the development of a research project on anticipatory dynamics in social robots within the CORTEX cognitive architecture**

#### Summary

*A southern Spain university research group specialised in intelligent mobile robotics and computer vision is looking for scientist candidates from all over the world interested in the MSCA Individual Fellowship (call H2020-MSCA-IF-2020). The researchers will carry out research on prediction and anticipatory dynamics in social robots within a cognitive architecture based in CORTEX, integrating ongoing research in social navigation, social manipulation and conversational skills.*

Reference

RDES20200714002

#### Details

##### Description

A research facility that belongs to a University in the southwest of Spain has the ambition to create socially-aware robots that improve people's living conditions. The research group builds robots, from the mechatronics to the planning algorithms, that interact with real people in their adapted facility, the Autonomy Lab. This approach gives them a good perspective to study human-robot interaction processes and to design new cognitive architectures that support their research.

Social Robotics is one of the disciplines expected to provide a deeper impact on our everyday lives. The concept of human-robot interaction is rapidly evolving into more challenging goals. Robots are expected to be more proactive in their relationships with humans, anticipating their intentions and behaving in a more human-predictable way. This project will explore ways to create anticipatory dynamics in social robots within the CORTEX cognitive architecture, integrating ongoing research in social navigation, social manipulation and conversational skills. Social-awareness is conceived as the ability to create and sustain a prediction-validation loop between the

robot and its social environment. Prediction and anticipation are the cornerstones of awareness and its extension to social interactions is a major challenge.

Deadline for Eols: 01/08/2020

Deadline of the call: 09/09/2020

Anticipated duration of the project: 24 months

## Stage of development

Proposal under development

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## Keywords

### Technology

01001001	Automation, Robotics Control Systems
01003003	Artificial Intelligence (AI)

### Market

02007012	Medical/health software
02007016	Artificial intelligence related software

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## Client

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### Client Country

Spain

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## Partner Sought

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## Type and Role of Partner Sought

- Type of partner sought:  
Individual researcher of any nationality with a doctoral degree or at least 4 years' full-time research experience in the field of the project. Researcher should not have resided or carried out his/her main activity in Spain for more than 12 months in the last 3 years before 9th of September of 2020.
- Specific area of activity of the partner:  
Computer science and robotics.
- Task to be performed:  
Research project for a 2-year period on anticipatory dynamics in social robots within the CORTEX cognitive architecture.
- EU / International project experience:  
Desired but not compulsory.

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## Program - Call

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### Framework Program

Marie Skłodowska-Curie Actions

### Call title and identifier

H2020-MSCA-IF-2020

### Coordinator required

No

### Duration

104 days

### Deadline for EOI

01 Aug 2020

### Deadline of the Call

09 Sep 2020

### Weblink to the call

[https://ec.europa.eu/research/mariecurieactions/actions/get-funding/individual-fellowships-2020\\_en](https://ec.europa.eu/research/mariecurieactions/actions/get-funding/individual-fellowships-2020_en)