Researcher in synchronization of chaotic optomechanical cavities for secure communication applications (2018 LLAV 00028)

Mandatory	Optional

Project information

Acronym	OMCHAR	**FBG project number**	LLAV-00028-IMPULSA
Project title	Long-range optical secure communications with optomechanical crystal in a chaotic regime		
IP	Prof. Blas Garrido Fernández		
Department	Enginyeria Electrònica i Biomèdica		

Basic information

Job description

Title	Researcher in synchronization of chaotic optomechanical cavities for secure communication applications
Offer description *Project description, responsibilities, functions and/or tasks of the position, PhD program, etc.*	We will contract a full time researcher (Ajudant Investigador) that will be involved in the simulation, design and experimental testing of single and pairs of coupled optomechanical crystals along the duration of the project. It is expected that few rounds of sample design/fabrication/testing/optimization loops are going to be required before reaching optimized devices and the researcher will be strongly involved in this loop. The contracted person will be taught and guided by the responsible and enterpreneur scientist. The position will open the possibility of doing the PhD degree within our group in similar topics.

Researcher Profile *Select one*		
	■	First Stage Researcher *(PhD candidate or equivalent, experience less than 4 years)*
		Recognised Researcher *(PhD holder or equivalent, experience more than 4 years, not fully independent)*
		Stablished Researcher *(Established researcher with a developed level of independence)*
		Leading Researcher *(Leading his/her area or field)*

Research field *Select one*						
	Agricultural sciences		Educational sciences		Literature
	Anthropology	■	Engineering	■	Technology
	Architecture		Environmental sciences		Religious sciences
	Arts		Ethics in health sciences		Sociology
	Astronomy		Ethics in natural sciences		Physiological sciences
	Biological sciences		Ethics in physical sciences		Neurosciences
	Chemistry		Geography		Pharmacological sciences
	Communication sciences		Geosciences		Mathematics
	Computer science		History		Philosophy
	Criminology		Information science		Medical sciences
	Cultural science		Juridical sciences		Political sciences
	Demography		Language sciences	■	Physics
	Economics		Other		

Gross salary per year	15.801,36 €

How to apply

Required documents	Application letter, Curriculum vitae.	
Send your application to:	**email**	dnavarro@ub.edu
	Name	Daniel Navarro Urrios
	email subject	Application position in OMCHAR

Work conditions

Type of contract	Temporary				
Job status *Select one*		full-time	X part-time	**Hours per week**	**37.5**
Application deadline	June 17, 2019			**Job Starting Date**	01/07/2019

Funding

Is the job funded through a EU Research Framework Programme? *Select one*		H2020 / Marie Sklodowska-Curie Actions COFUND		FP7 / People-Maire Curie Actions COFUND
		H2020 / Marie Sklodowska-Curie Actions		FP7 / People-Maire Curie Actions
		H2020 / ERC		FP7 / Ideas-ERC
		H2020 / EIT		FP7 / JRC
		H2020		FP7
If not, indicate the fund program and organization	LLAVOR Industria del Coneixement, Generalitat de Catalunya			
Science4Refugees				

Hiring Organisation

Contact Person:	Name	
	email	
	Phone	
	Mobile phone	

Work location

Department / Centre	Enginyeria Electrònica i Biomèdica/Facultat de Fisica		
City	**Barcelona**		
Street	Martì I Franquès 1	Postal Code	**08028**

Requirements

Required Education Level *Select one*		Bachelor Degree or equivalent
		Master Degree or equivalent
		PhD or equivalent
Skills/Qualifications	– The candidate must demonstrate an excellent academic record. – Interest in science and technology, specifically in photonic and nanotechnology. – Previous practical experience related with photonics or optomechanics will be highly desirable.	
Specific requirements		

Required languages	Language	Level *Basic/Good/Excellent/Mother tongue*
	English	**Good**

Additional information

Website for additional job details	

Selection process

Eligibility criteria	The candidate must hold or be coursing a Master degree in one of the research fields stated in the job description
Selection process	A first selection will be made in terms of skills/qualifications In-person or online interviews will be made with selected candidates.

Additional comments
