

APPLICATION FORM 1 APPLICATION FORM: GLOBAL TRAINING PROGRAMME

		CORPORATIVE INFORMATI	ON
Name of the company Contact Person		JOANNEUM RESEARCH Forschungsgesellschaft mbH	
		Rita Eckhard	Email:
Location	Country	Austria	
	City	8160 Weiz	
	Address	Franz Pichlerstrasse 30	
Sector		RIS3 sector: BIOSCIENCE - F	IEALTH

Number of trainees to host (in case you want more than 1 trainee, indicate the different departments where they will work)		1
Extension time (extra months and salary) OPTIONAL SEE DOCUMENT: "FORM 2_Global Training 2022 extension preliminary agreement"	Extra months	Al finalizar los 6 primeros meses, la empresa ofrece la posibilidad de
	Monthly payment for extra months (between 0- 1500€/month)	prorrogar la estancia 6 meses con la siguiente mensualidad (a día de hoy): about 1500€/month

Department	Materials – Institute for Surface Technologies and Photonics
	Our department is specialized in Roll to roll nanoimprinting of different structures,
Description of project/activities	such as optical structures, microfluidic structures and lab on chip developments. We have experience in material development for UV imprinting including optical properties. One part of the institute is specialized in optical simulations, one other part in development of sensors, microfluidic lab-on-chip devices, fabrication of optical microlenses, etc. Possible activities/ projects could be: Development of mastering techniques and replication of lab on foil based chips Development and fabrication of outcoupling refractive structures or transparent heating elements for lab on chips Development of a foldable lab on chip device fabricated by means of roll to roll nanoimprinting Development of sensor chemistry or onchip amplification for lab on chip devices Simulation of optical elements and fabrication of those (microlenses, optical decorative elements) Inkjet printing in combination with other structuring techniques (3D printing, microimprinting,) Nanostructuring of surfaces with Laser ablation or laser structuring











EUSKARA, KULTURA ETA NAZIOARTEKOTZEAREN ARLOKO ERREKTOREORDETZA VICERRECTORADO DE EUSKERA, CULTURA E INTERNACIONALIZACIÓN VICERRECTORATE FOR BASQUE, CULTURE AND INTERNACIONAL RELATIONS

Requested profile(s) information (Studies, previous experience, language skills, other skills)	Studies: mechanical engineering, biomedical engineering, physics or chemistry Language skills: English
Other commentaries	

COMPANY/ORGANIZATION	SIGNATURE	DATA
JOANNEUM RESEARCH Forschungsgesellschaft mbH	the aller -	2 1 Mis 9."
REPRESENTATIVE: DI Dr. Heinz Mayer	The Mayle	7.74











INFORMATION ABOUT THE COMPANY/INSTITUTION

JOANNEUM NESEARCH	
www.joanneum.at	
Weiz is a small and nice city in the eastern part of Austria with approx 11.000 inhabitants (www.weiz.at). It is 30 km in the North of Graz, the capital of the province of Styria. Many private accommodation in Weiz are available, but there is also public transport to Graz either by bus or by train every half hour (takes approx. 50 min), many of our students and coworkers live in Graz and commute by bus or train or in summertime by bike (quite hilly). Graz has a very active student social life (if Corona is not restricting) and also a quite large basque students community.	
JOANNEUM RESEARCH is a professional leader of innovation and provider of technology. Its entrepreneurial focus and track record of 30 years of cutting-edge research performed on an international scale has made it stand out from the crowd. The key function is to facilitate the transfer of technology and knowledge in South-East-Austria. For these reasons, it is perfectly suited for applied research and technology development. JOANNEUM RESEARCH networks with members of national and international scientific and research communities. It is a recognized research partner whose scientific work fulfills the highest international standards. It supports companies during the development of technologies and processes. In this way, it makes a crucial contribution to secure and increase the competitiveness of Styria and Carinthia as a location for research, innovation and business. The MATERIALS - Institute provides a link development of large area processes and industrial application. By forming strategic partnerships with both regional and international partners in the scientific and industrial sectors, MATERIALs develops comprehensive, interdisciplinary solutions to problems encountered in the fields of optical application, medical technology and manifold other applications	
450	
80	
JOANNEUM RESEARCH's institute MATERIALS—Institute for Surface Technologies and Photonics is dedicated to the applied materials research. Main activities include medical sensor development, development of materials for optical and imprinting purposes, simulation and prototyping of manifold applications.	
 Large-scale production of organic layers (roll-to-roll, screen printing): any kind of structure (optical, biomimicing (gecko effect, lotus effect,), microfluidic channels Microfluidic chip development: new layout design, mastering with several technique (photolithography, e-beam lithography, grey scale laser lithography), master upscalir for R2R imprinting, R2R UV-NIL imprint, chip assembly Green Photonics and Electronics Structured (biomimetic) surfaces in the nanoscale: mastering up to large area replica via UV-Nanoimprint Lithography Piezoelectric sensors and energy harvesters (Optical) Chemo-and Biosensors Laser Production Technology 	











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	 Aerosol and inkjet printing Laser and plasma-assisted vacuum deposition process
PREVIOUS COLLABORATION IN INTERNSHIP/TRAINING PROGRAMMES?	JOANNEUM RESEARCH Materials is participating for the fourth time in this internship project. In the year 2017/2018 we participated the first time and hosted two students: Elena Gonzalez and Asier Alvarez. Asier is still in Weiz, doing a PhD in microfluidic simulation. In the year 2018/2019 we also participated and Izar Gorroñogoitia Uribarren was doing her internship. She left after 12 month for a research job in Basque country. In the year 2019/2020 we were hosting again two students: Jon Ostolaza and Mikel Arocena. Mikel prolonged his internship for 6 months and has currently another years contract at out institute.
OTHER COMMENTARIES	







