GLOBAL TRAINING PROGRAMME

FORM 1 APPLICATION FORM: GLOBAL TRAINING PROGRAMME

REFERENCIA: EHU26

CORPORATIVE INFORMATION				
Name of the company		**JOANNEUM RESEARCH Forschungsgesellschaft mbH**		
Contact Person		**Rita Eckhard**	Email:	
Location	Country	Austria		
	City	8712 Niklasdorf		
	Address	Leobnerstrasse 94		
Sector		RIS3 sector: ADVANCED MANUFACTURING		
PROPOSED INTERNHISP INFORMATION				
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 2023 extension preliminary agreement"*	**Extra months**	Si al finalizar los 6 primeros meses la empresa y el becario desean prorrogar la estancia, la empresa ofrece la posibilidad de prorrogar la estancia hasta 6 meses más.		
	Monthly payment for extra months (between 0-1600€/month)			
INTERNSHIP/PLACEMENT INFORMATION				
Department		MATERIALS - Institute for Sensors, Photonics and Manufacturing Technologies Research Group: Laser and Plasma Processing		
Description of project/activities		Our research group is specialized in Laser and Plasma Processing. We work on both company services and R&D projects obtained from public funding. The main areas of activity in the laser processing is laser welding, laser cladding, laser alloying and laser Additive Manufacturing for industrial applications. The main sectors of industrial application in our case are aerospace, biomedical, heavy industry, metalworking sector, automotive industry, etc. The activities of the candidate could be related to: ■ Laser welding of novel materials for industrial use; ■ Laser cladding of high performance materials; ■ Additive Manufacturing of big components for aeronautical and power generation sectors. ■ Development and testing of monitoring and control tools for laser processing. ■ Etc.		
COMPETENCES, SKILLS and EXPERIENCE REQUIREMENTS				
Requested profile(s) information (Studies, previous experience, language skills, other skills…)		The candidate should possess the following qualifications: - M.Sc. in Industrial Engineering (Mechanical Engineering, Metallurgy Science), although M.Sc. in Physics (Optics) and M.Sc. in Process Automation is not precluded. Language skills: Proficiency level in English is necessary, basic level of German would be highly valuated.		
Other commentaries				

COMPANY/INSTITUTION	SIGNATURE	DATE
REPRESENTATIIVE : DI Dr. Heinz Mayer	JOANNEUM RESEARCH Forschungsgesellsch mbH DI Dr. Heinz Mayer, May 3, 2023 1:23 PM Digital signiert gem. EU Reg. No 910/2014	

INFORMATION ABOUT THE COMPANY/INSTITUTION

LOGO	JOANNEUM RESEARCH
WEBSITE	Company: https://www.joanneum.at Research Group: https://www.joanneum.at/en/materials/research-areas/laser-processing
INFORMATION ABOUT THE CITY AND THE AREA WHERE THE COMPANY/ISTITUTION IS LOCATED (General information about SECURITY, ACCOMODATION, PUBLIC TRANSPORT…)	The Research Group Laser and Plasma Processing of the Institute MATERIALS of JOANNEUM RESEARCH Forschungsgesellschaft mbH is located in Niklasdorf. Niklasdorf is a small town in the vicinity of Leoben, which is one of main university centers in Austria (Montana University Leoben). JOANNEUM RESEARCH facility is reachable by bus (L810) and train (any S-line that goes from Leoben towards Bruck/Mur and Murzzüschlag stops in Niklasdorf). The train stops is 15mins walk from JR, while the bus stop in directly in front of the JR. In addition, in summer, bicycle ride from Leoben to JR is a very pleasant flat, 20min ride using a dedicated bike lane. Leoben accounts with the many student residents and single hotels for visiting researchers, professors and workers. Some of the most comfortable are Mineroom (link), Greenbox (link), Living Campus (link), etc. The common price for a single person is 300-350€/month, including costs of light, hot water, internet and many additional facilities such as laundry, gym, bicycle rent for free, etc. Finally, Leoben is a very pleasant, vivid and small-size town of 25.000 inhabitants with a lot of outdoor activities (see: Mugel hike, Bärenschutzklamm, etc.) and a number of festivals, among other sponsored by a local brewery Gösser, one of the most important in Austria. Graz is a major town, capital of Styria, which is at 45min train ride from Leoben with trains scheduled every 30-40mins. As everywhere in Austria, personal security is at the outmost level. Due to COVID regulations, there might be some restrictions, but at the same level of other EU countries.
GENERAL INFORMATION ABOUT THE COMPANY/INSTITUTION	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
SIZE OF THE COMPANY (EMPLOYEES)	500
NUMBER OF PEOPLE AT THE DEPARTMENT WHERE THE TRAINEESHIP WILL TAKE PLAKE	25

MAIN ACTIVITY OF THE COMPANY/INSTITUTION	JOANNEUM RESEARCH's institute MATERIALS - Institute for Sensors, Photonics and Manufacturing Technologies is dedicated to the applied materials research. Main activities include development of new materials for Additive Manfuacturing, more particular powder-bed and powder-blown metal 3d printing. The value chain includes design optimization, process planning, process simulation, manufacturing with inline monitoring and postprocessing.
A BRIEF EXPLANATION OF MAIN PROJECTS	JOANNEUM RESEARCH Institute MATERIALS - Research Group Laser and Plasma Processing: • crystAIr (FFG TakeOff, 2022-2025): Artificial Intelligence- and sensing-driven combustion burner • LaSPAM (FFG TakeOff, 2021-2022): Novel postprocessing for fatigue and hydrogen resistance of Additive Manufacturing aircraft materials • QuaL-DED (FFG-PdZ, 2020-2023): Total quality control of laser Directed Energy Deposition process for zero-defect components • Join!SLM-ticfk (FFG-Take Off, 2020-2022): Entwicklung von an die Nachgiebigkeit von CFK-Laminaten angepasste TiAl6V4-Inserts für höchste Ermüdungsfestigkeit • 3D Aerotip (FFG-Take Off, 2017-2020): Additive manufacturing for innovative titanium components for the aviation industry.
PREVIOUS COLLABORATION IN INTERNSHIP/TRAINING PROGRAMMES?	JOANNEUM RESEARCH Materials is participating for the fifth 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 and was then employed for about a year as a member of our scientific staff. In the current year 2022/2023, we are hosting Gonzalo Lucas Herran at our Niklasdorf site.
OTHER COMMENTARIES	