

GLOBAL TRAINING PROGRAMME

FORM 1 APPLICATION FORM: GLOBAL TRAINING PROGRAMME

REFERENCIA: EHU10

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			CORPORATIVE INFORMATION	ON		
Name of the company			CSD Labs / eMurmur			
Contact Person		Andreas Reinisch	Er	mail:		
Location	Country		Austria	•		
	City		Graz			
Address			Nikolaiplatz 4			
Sector		Medical software / Software engineering / e-learning				
		PR	OPOSED INTERNHISP INFORM	MATION		
Number of trainees to host (in case you want more than 1 trainee, indicate the different departments where they will work)		1 . Se ofrecen 3 proyectos para 1 plaza				
Extension time (extra months and salary) OPTIONAL		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.			
SEE DOCUMENT: "FORM 2_Global Training 2023 extension preliminary agreement"		Monthly payment for extra months (between 0- 1600€/month)	Al finalizar los 6 primeros meses, la empresa ofrece la posibilidad de prorrogar la estancia varios meses con la siguiente mensualidad (a día de hoy):1.600 €/ mes			
		INT	ERNSHIP/PLACEMENT INFORM	MATION		
Department			Project 1: Software Developr Project 2: Data Analysis/Sign		ng	
			Project 3: Quality Management			
Description of project/activities			Project 1: Software Development Depending on your skills and experience, contribute to our software development projects (mobile, web, backend) supervised by our senior engineers Contribute to new features Maintain existing projects and fix bugs Write tests for our existing software components Project 2: Data Analysis/Signal processing Depending on your skills and experience, contribute to our data analysis/signal processing projects (heart sound analysis, lung sound analysis) supervised by our senior engineers Help labelling existing data Improve existing data analysis and signal processing algorithms Contribute to tools in our data analysis/signal processing pipelines Analyse existing data for patterns			
			supervised by our qua	e our qualit ality manag	y manag gement e	gement system (US/FDA EU/CE), engineers ion of our medical devices









Manage and analyse clinical data Research about regulatory strategies and monitoring regulatory changes COMPETENCES, SKILLS and EXPERIENCE REQUIREMENTS Project 1: Software Development Background: Computer Science/Software Engineering/Medical Engineering Solid foundations in software engineering Optional: knowledge in data analysis/machine learning (Python), iOS/Android development, web app (Typescript/HTML/CSS) development, backend (C#/.NET) development. We operate in many different areas and would employ you wherever your skills match our projects the best. Language skills: English Project 2: Data Analysis/Signal processing Background: Computer Science/Software Engineering/Medical Engineering Requested profile(s) information Required: Basic knowledge in Python (Studies, previous experience, language skills, other Optional: experience with numpy, scipy, sklearn skills...) Basic knowledge in data analysis/machine learning Language skills: English Project 3: Regulatory/Quality Management Background: Quality management/Project management/Medical engineering Basic knowledge in quality management Very structured and diligent work attitude Interested in medical topics and diagnostic devices in particular Optional: medical device regulations: ISO 13485:2016, MDR, 21 CFR part 820 Language skills: Excellent English Other commentaries

COMPANY/INSTITUTION	SIGNATURE	DATE
REPRESENTATIIVE: Andreas Reinisch	Audras Ramas	28/04/2023









INFORMATION ABOUT THE COMPANY/INSTITUTION

LOGO	CSD labs eMurmur
WEBSITE	www.emurmur.com
INFORMATION ABOUT THE CITY AND THE AREA WHERE THE COMPANY/ISTITUTION IS LOCATED (General information about SECURITY, ACCOMODATION, PUBLIC TRANSPORT)	Graz is the second largest city of Austria with 325.000 inhabitants (of which more than 44.000 are students). There are 4 major universities in Graz and a very good public transport system. It is a very safe city, and accommodation is quite cheap (around 250-350 EUR for a room in a shared flat). It is close to Hungary, Slovenia, Italy, and both culturally and scenically a very interesting region. https://en.wikipedia.org/wiki/Graz Our office is in the center of Graz and easily reachable by foot, bike, or public transport. For more information, please contact me at andreas.reinisch@emurmur.com
GENERAL INFORMATION ABOUT THE COMPANY/INSTITUTION	We develop products to support medical professionals in auscultation (auscultation = examination with the stethoscope). Our main areas are development and sales of medical software, development of heart sound and lung sound analysis algorithms, performing clinical studies, and development of eLearning tools for students and universities.
SIZE OF THE COMPANY (EMPLOYEES)	10
NUMBER OF PEOPLE AT THE DEPARTMENT WHERE THE TRAINEESHIP WILL TAKE PLAKE	8
MAIN ACTIVITY OF THE COMPANY/INSTITUTION	We operate in 2 areas: Research and development of heart sound analysis algorithms and lung sound analysis algorithms. Development of a digital auscultation platform, incorporating analysis algorithms. Development of eLearning tools in heart/lung sounds for students universities For more information visit www.emurmur.com
A BRIEF EXPLANATION OF MAIN PROJECTS	eMurmur: a digital auscultation platform enabling healthcare providers to screen, monitor, diagnose, and consult with greater certainty. eMurmur consists of an Android app, an iOS app, a web portal, and a backend. https://emurmur.com/platform/ eMurmur Heart AI: medical device for heart sound analysis and documentation: the user connects our app on a smartphone to an electronic stethoscope and captures the heart sounds, sends the heart sounds to a server where they are analyzed, the analysis result is returned to the user. https://emurmur.com/ai-publications/
	eMurmur Lung AI: medical device for lung sound analysis and documentation. Currently









	under development and not released yet. Littmann Learning: heart/lung murmur training and testing app for self-paced learning; Android- and iOS-based app. Littmann University: interactive auscultation training platform for instructors and students; Android- and iOS-based app.
PREVIOUS COLLABORATION IN INTERNSHIP/TRAINING PROGRAMMES?	Up to now we hosted 10 Basque trainees of the Global Training Programme, all of which extended the programme by the maximum time. Two of them are now employed full-time; one of them is still here in Graz, while the other continues to work for us remotely. We also continued to work with 2 other former trainees for 6 months after the full 12 months of the Global Training Programme on a contractor-basis.
OTHER COMMENTARIES	





