

ANNEX III - APPLICATION FOR PARTICIPATION: GLOBAL TRAINING PROGRAMME – INTERNSHIP INFORMATION*

**This form must be completed in full without modifying or altering the provided text. Any changes to the template will render the application invalid.*

INTERNSHIP REFERENCE: (Please include the same code or reference number in the file name as that used to identify the internship in Annex IV) **REFERENCIA: EHU19**

CORPORATE INFORMATION		
Name of company/organisation	Helmholtz-Zentrum Berlin für Materialien und Energie	
Tax ID number	27/603/50665	
Contact person	Pablo Echevarria Fernandez pablo.echevarria@helmholtz-berlin.de	
Legal representative		
Location	Country	Germany
	City	Berlin
	Address	Hahn Meitner Platz 1 14109
Sector	Scientific research on materials for a sustainable energy supply and operation of the electron storage ring BESSY II	
Total number of Internships offered at this site for Global Training 2025 (according to the Programme Rules, companies or organisations may offer a maximum of 5 internships per site)	2	



INTERNSHIP INFORMATION	
Number of interns to be hosted	2
Type of visa or permit required for the internship, in accordance with current legislation	According to the German Representations in Spain: A visa must be applied for before entering the country for any employment of more than 90 days. However, there are exceptions: 1. Nationals of the EU, the European Economic Area and Switzerland do not require a visa. 2. Nationals of the following countries also do not require a visa on entry and can apply for the necessary residence permit in Germany at the Foreigners' Office: Australia, Israel, Japan, Canada, New Zealand, Republic of Korea, United States of America and United Kingdom of Great Britain and Northern Ireland. However, you can only start working if you have the corresponding German residence permit. Therefore, please inform yourself about the processing times. If you want to work immediately after entering Germany, you must first apply for a visa. https://spanien.diplo.de/es-es/service/einreise/2661794-2661794?openAccordionId=item-2661802-4-panel
Department (If more than one intern is being requested, specify the department for each individual)	Institute for Science and Technology of Accelerating Systems
Description of the project/activities (If more than one intern is being requested, specify the project/activities for each individual)	<p>The Institute for Science and Technology of Accelerating Systems is in charge, among other tasks, of the design, construction and commissioning of cavities used for particle acceleration. Currently it is working in several projects like the following:</p> <ul style="list-style-type: none">- SEALab (SRF Electron Accelerator Laboratory) where the commissioning of the first stages of an energy recovery linear (ERL) particle accelerator are taking place. The principle behind this idea is the construction of high current, compact particle accelerators requiring much less electrical power and, subsequently, reducing the environmental and financial impacts.- Innovate for Sustainable Accelerating Systems European project, which main objectives are broaden, expedite and amplify the development and impact of novel energy-saving technologies to accelerate particles. In this project, we contribute in several work packages whose objectives are finding new materials for superconducting cavities, new cavity tuning techniques like Fast Reactive Tuners and advance cavity control techniques to maximize cavities' loaded quality factor.- BESSY II+, where several modernization measures of BESSY II synchrotron light source are taking place. Some tasks of the institute include the study and design of higher harmonic cavities and the development of a new digital LLRF control. <p>The activities of the trainees will range from the design and simulation of cavities, set up of laboratory experiments, experimental measurements, electromagnetic fields control algorithms design, etc. The specific tasks of the trainees will be adapted, as much as possible, to the previous experience and training of the trainee</p>



Activity schedule	<ul style="list-style-type: none">- Week 1: Labor safety training and Radiation protection training if needed. Administrative tasks. Setting up user accounts and passwords, etc. Meeting the other coworkers.- Weeks 2 and 3: reading all required documentation and learning about the specific tasks and topics they are assigned.- Months 2 to 5. Carrying out the proposed tasks.- Last month: Reporting to the Institute. Documenting all tasks done. Cleaning and commenting the code if needed. Uploading the files in a shared resource (GitHub, shared directories, etc.)
Internship supervisor (according to the Programme Rules, a maximum of 2 internships may be supervised by the same individual)	Pablo Echevarria Fernandez

REQUIRED COMPETENCIES FOR THE ROLE	
Information on the desired profiles (Education, previous experience, languages, other skills, etc.)	Studies: Physics, Electronics Engineer, Computer Science Engineer. Languages: Good English level. The working language will be English. German knowledge is an asset but not necessary. It's very important that the trainee is capable of documenting and reporting their work properly. Other Skills: Control algorithms, FPGAs programming, programming languages (LabView, Python, C++), CST Studio, RF systems knowledge (oscilloscopes, network analyzers, spectrum analyzers...), ability of working in a multicultural team.
Comments	In the previous editions, the tasks performed by the trainees were successfully fulfilled. One trainee appeared as coauthor in several papers in the International Particle Conference. Other trainees used their work here to write their Master Thesis, defended later in Spanish Universities.



PRE-AGREEMENT ON INTERNSHIP EXTENSION

The company/organisation declares its commitment to extend the intern's stay under the Global Training programme for:

months.

No Extension.

This extension is conditional upon the normal and satisfactory completion of the initial 6-month funded internship period. During the extended period, the insurance cost will be covered by the company/organisation. The monthly allowance may not be less than €1,000.

MONTHLY ALLOWANCE DURING EXTENSION:

Same as the programme allowance (€1,635)

_____ € (must not be less than €1,000)

No Extension.

STATUTORY DECLARATION:

The applying company or organisation declares that:

All information provided in this document is true and accurate.

No more than 5 internships are being offered at this site under Global Training 2025 and no more than 2 per supervisor.

Where a visa or other permit is essential for the intern's stay in the host country, all relevant legal requirements are met.

In the case of signing the extension pre-agreement, the company will provide supporting documentation confirming the extension (e.g. internship contract or similar). If unable to honour this commitment due to unforeseen circumstances, a report will be submitted detailing the reasons and providing the necessary justification.



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GRUPO
SPRI
TALDEA

 EUSKO JAURLARITZA
GOBIERNO VASCO
BASQUE GOVERNMENT

COMPANY/ORGANISATION	SIGNATURE	DATE
<p>Legal representative</p> <p></p> <p>Prof. Dr. Bernd Rech Wiss. Geschäftsführung/ Scientific Director Helmholtz-Zentrum Berlin für Materialien und Energie Hahn-Meitner-Platz 1 • 14109 Berlin Tel. +49 (0)30 8062-14747</p>		<p>Thomas Frederking Kaufmännischer Geschäftsführer</p>

REMARKS:

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