**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: EHU02**

| **CORPORATE INFORMATION** | | |
|---|---|---|
| **Name of company/organisation** | | AIT Austrian Insitute of Technology GmbH |
| **Tax ID number** | | ATU14703506 |
| **Contact person** | | Nicole Brosch<br><Nicole.Brosch@ait.ac.at> |
| **Legal representative** | | Andreas Vrabl (Head of Center)<br>Center for Vision, Automation & Control, AIT<br><br>Markus Clabian (Head of Competence Unit)<br>Competence unit High-Performance Vision Systems, AIT |
| **Location** | **Country** | Austria |
| | **City** | Vienna |
| | **Address** | Giefingasse 4, 1210 Vienna, Austria |
| **Sector** | | Research and Technology Organization (RTO), industrial research |
| **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)** | | 1 |

| INTERNSHIP INFORMATION | |
|---|---|
| **Number of interns to be hosted** | 1 |
| **Type of visa or permit required for the internship, in accordance with current legislation** | EU citizenship |
| **Department**<br><br>(If more than one intern is being requested, specify the department for each individual) | Center for Vision, Automation & Control (VAC): https://www.ait.ac.at/en/about-the-ait/center/center-for-vision-automation-control<br><br>Competence Unit High-Performance Vision Systems (HVS): https://www.ait.ac.at/en/research-topics/high-performance-vision-systems |
| **Description of the project/activities**<br><br>(If more than one intern is being requested, specify the project/activities for each individual) | High-accurate 3D robotic inspection using Computer Vision based systems and ultrafast 2.5D inline inspection.<br><br>The aim of the project is to enhance current AIT state-of-the-art in Inline Computational Imaging technology to tackle challenging scenarios in industrial applications. These scenarios include challenging inspection tasks such as retrieving 3D shapes of shiny or transparent objects, detecting defects on a micro-meter scale, deploying robotic platforms to automate the inspection process. To achieve this objective, new methodologies are explored by developing a range of algorithms spanning across Computer Vison, Artificial Intelligence, and Robotics. By using multi-view and photometric stereo images captured by high-deforming digital cameras, the aim is to infer highly accurate depth information of an inspected object. This allows to provide quality understanding based on metrology cues of the scene.<br><br>The success of this project has significant implications for the industrial sector, particularly in improving the efficiency and accuracy of inspection process for many applications, ranging from 3D printing to additive manufacturing of the different compartment of the industrial panorama. The supervision of the selected candidates will be assigned to senior research scientists and engineers with deep expertise in the field of Computer Vision and Robotics. |

| | |
|---|---|
| **Activity schedule** | The trainee will have the opportunity to gain experience in diverse research and development activities within the High-Performance Vision Systems (HVS) competence unit, e.g., participating in industrial inspection and quality assurance projects through hands-on work, experimentation, and collaborative research. Depending on the interest and skills of the trainee she or he will join activities such as:<br><br>- Research and development tasks (literature reviews of current vision system technologies, implement or document current methods, current research activities, data analysis, …)<br><br>- Gain practice and practical experience in a vision laboratory environment (e.g., assembling imaging systems, system testing, calibration, acquire test samples, data collection, …)<br><br>- Project experience (e.g., participating in currently running experiments, evaluations, …) |
| **Internship supervisor (according to the Programme Rules, a maximum of 2 internships may be supervised by the same individual)** | Nicole Brosch<br><Nicole.Brosch@ait.ac.at> |

| **REQUIRED COMPETENCIES FOR THE ROLE** | |
|---|---|
| **Information on the desired profiles**<br><br>(Education, previous experience, languages, other skills, etc.) | - Very good command of English in spoken and written.<br><br>- Degree in Computer Science, Computer Vision / Image Processing, Mathematics, Physics, or related fields<br>- Knowledge in computer vision and image processing<br>- Good programming skills in Python and/or MATLAB<br><br>- Ability to communicate and work in a team<br>- Strong self-motivation and enthusiasm for creative solutions |
| **Comments** | |

## 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:

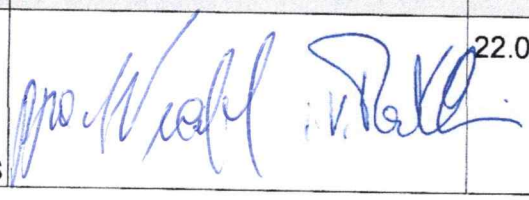
**The applying company or organisation declares that:**

☑ **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.**

| COMPANY/ORGANISATION | SIGNATURE | DATE |
|---|---|---|
| **Legal representative**<br>ppa. Andreas Vrabl<br>Head of Center VAC<br>i.V. Markus Clabian<br>Head of Competence Unit HVS |  | 22.05.2025 |

**REMARKS:**

HoelblingA
02.06.2025