APPLICATION FORM: GLOBAL TRAINING PROGRAMME – INTERNSHIP INFORMATION

CORPORATIVE INFORMATION		
Name of the company		STIRtec GmbH
Contact Person		Gunter Figner
Location	**Country**	Austria
	City	Goessendorf bei Graz
	Address	Golfstrasse 5ª
Sector		Welding, Industry, Welding Machines

PROPOSED INTERNHISP INFORMATION		
Number of trainees to host		1
Extension time (extra months and salary) OPTIONAL SEE DOCUMENT: *"FORM 2_Global Training 2015 extension preliminay agreement"*	Extra months (2, 3 or 4 months)	4
	Monthly payment for extra months (between 0-1024€/month)	1024€/month

INTERNSHIP/PLACEMENT INFORMATION	
Department (in case you want more than 1 trainee, indicate the different departments where they will work)	***R&D Department:*** The R&D Department is responsible for the research and development of the technology, machines and tools for Friction Stir Welding (FSW).
Description of project/activities (in case you want more than 1 trainee, indicate the different projects/activities on which they will work)	***STIRTEC at a glance*** The company STIRtec GmbH is an Austrian based technology company near Graz, Austria. STIRtec was founded in 2012 by DI. Gunter Figner and Dr. Thomas Weinberger . The core competence of our company lies in the research, development and supply of technology , machines and tools in the field of friction stir welding technology (short "FSW") Both Mr. Figner as well as Mr. Weinberger have gained in-depth knowledge of FSW during their scientific work at the Graz University of Technology over the past 9 years. This includes not only basic research but even more the application engineering and tool development. FSW is a method, in which materials are brought into a pasty state by friction by means of a rotating tool and at the same time being "stirred" by which a firm connection between the two components can be produced.

The main advantage of this method is, that it is thus possible to combine even materials and material combinations that were hitherto considered not weldable with so far existing technologies!
FSW is ideal (and often the only method) for the welding of all kinds of aluminum alloys. Moreover, it allows the firm connection of various material-combinations such as Steel - aluminum, copper - aluminum, magnesium - aluminum, etc.
Worldwide unique in this industry is, that STIRtec has developed the FSW technology for specific applications for pure steel to steel joints.

FSW therefore has enormous potential for various applications for which there are currently insufficient or no automated processing solutions or for applications where FSW represents an advantageous alternative vs. existing technologies.

In general, FSW is already used in the following industrial sectors :

- Automotive
- Commercial Vehicles
- Air and Space
- Rail vehicles
- Shipbuilding
- Medical
- Process and Chemical Engineering
- Special engineering

Although a young company, we can already highlight internationally sound references in the automotive-, commercial vehicle- and rail vehicle-industry

Through our ongoing continuous development, FSW technology opens up further fields of application and therefore a fast and continuously growing customer potential.

Trainee-Profile

We are offering a position for a trainee in the R&D Department.
This includes the research on FSW-Applications and the transfer of FSW-Know-How into the development of special purpose machines for the industry (basically Automotive industry).

In particular the function covers following:

- Project management of internal R&D and/or customer projects
- Definition of project specifications based on R&D- or customer requirements
- Preparation and execution of FSW-Lab-Trials
- Preparation of machine concepts for the design department

Based on his/her capabilities and interests, the candidate can be integrated in the whole R&D process and thus will be able to learn the technological core aspects of this innovative FSW-technology.

COMPETENCES, SKILLS and EXPERIENCE REQUIREMENTS	
Requested profile(s) information (Studies, previous experience, language skills, other skills…)	*Studies:* • Mechanical engineering • ideally with knowledge in material science (metals) and welding *Skills*: • Project management • Experience in machine design (CAD) • Ideally knowledge of machine control systems (e.g. S7 or Siemens 840D); not mandatory *Language Skills* • fluent English required • German of advantage but not mandatory
Other commentaries	none