

APPLICATION FORM 1


APPLICATION FORM: GLOBAL TRAINING PROGRAMME 2018-2019 – INTERNSHIP INFORMATION

CORPORATIVE INFORMATION	
Name of the company	Bright Red Systems
Contact Person	Thomas Jerman Email: _____
Location	Country: AUSTRIA
	City: Headquarter: Graz Laboratory: St. Egyden, City: Villach
	Address: Headquarter: 8010 Plüddemangasse 39 Laboratory: 9536 Am Sonnenhügel 29
Sector	Research and Development of laser-based optical measurement systems, including embedded systems, electronics and software development

PROPOSED INTERNSHIP INFORMATION	
Number of trainees to host	1 becario (se ofrecen varios perfiles)
Extension time (extra months and salary) OPTIONAL SEE DOCUMENT: "FORM 2_Global Training 2017 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 5-6 meses más.
	Monthly payment for extra months (between 0-1358€/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): € 1358

INTERNSHIP/PLACEMENT INFORMATION	
Department (in case you want more than 1 trainee, indicate the different departments where they will work)	Research and Development
Description of project/activities (in case you want more than 1 trainee, indicate the different projects/activities on which they will work)	For the development of the patented 2D precision laser measurement systems (laser scanner), tasks described in the attached profiles need to be addressed by the trainees, preferably Masters level graduate of Electrical Engineering, Masters level graduate of Software Engineering, or similar as well as Masters level graduate of Business Administration and Marketing
COMPETENCES, SKILLS and EXPERIENCE REQUIREMENTS	
Requested profile(s) information (Studies, previous experience, language skills, other skills...)	See detailed profile descriptions on the following pages.
Other commentaries	The ranking of the desired trainees is: <ul style="list-style-type: none"> • Application and Test Engineer • Marketing Trainee

INFORMATION ABOUT THE COMPANY/INSTITUTION

<p align="center">LOGO</p>	
<p align="center">WEBSITE</p>	<p>www.brs.eu.com</p>
<p align="center">INFORMATION ABOUT THE CITY AND THE AREA WHERE THE COMPANY/INSTITUTION IS LOCATED</p> <p>(General information about SECURITY, ACCOMODATION, PUBLIC TRANSPORT...)</p>	<p>BRS is located in St. Egyden near Villach. Austria is one of best place to live in the world (third place of safest countries) because the country has very low crime. Austria is also known for its cleanliness and strict recycling law to protect the environment.</p> <p>Accomodation can easiily be found between Velden and Villach. Currently Trainees from the GTP live in Villach.</p>
<p align="center">GENERAL INFORMATION ABOUT THE COMPANY/INSTITUTION</p>	<p>When the founder of BRS was working in the semiconductor industry, he faced big challenges concerning the growing production of fragile thin wafers. As their edges are very sensitive to mechanical stress, he thought about developing a technology helping semiconductor manufacturers to monitor wafer edge integrity automatically by simultaneously keeping throughput high.</p> <p>However, developing measurement technologies is only half of the story, because successful quality assurance is also based on essential system integration services.</p> <p>Today, the enthusiastic team of BRS develops great products and offers services helping you to reduce production costs and to deliver only the best products.</p>
<p align="center">NUMBER OF PEOPLE AT THE COMPANY OR DEPARTMENT WHERE THE TRAINEESHIP WILL TAKE PLAKE</p>	<p>BRS is a start-up company with 5 employees additionally having one GTP trainee currently. The trainees will work in the research and development department as well as in the marketing department.</p>
<p align="center">MAIN ACTIVITY OF THE COMPANY/INSTITUTION</p>	<p>Research and development of the laser-based inline wafer edge inspection system based on the company's patented laser measurement technology.</p>
<p align="center">A BRIEF EXPLANATION OF MAIN PROJECTS</p>	<ul style="list-style-type: none"> • Embedded software development for the wafer edge inspection system • Web Developer for Graphical User Interface Applications • Computer aided design of mechanical casings and calibration tools • Planning of customized optical and electrical measurement systems for quality assurance • Marketing
<p align="center">PREVIOUS COLLABORATION IN INTERNSHIP/TRAINING PROGRAMMES?</p>	<p>Yes, each year since 2013</p>



Profile Description

Application and Test Engineer

The Wafer Edge Screener inspection system is used in the semiconductor industry for automated quality control of produced silicon wafers, and relying on a proprietary and patented new measurement principle based on laser light projection.

For ensuring continuity of product quality, and improving future releases of associated software related to the Wafer Edge Screener inspection system, the following tasks need to be addressed by a suitable individual, preferably a Masters level graduate of an Electrical Engineering or Software Engineering degree, or similar.

Tasks:

- Development of test programs for automatic testing of Wafer Edge Screener systems under various operating conditions using unit testing in MATLAB, and providing analysis of the data using objective metrics. This involves applying the test programs to systems for evaluation, using a precision coordinate machine for data collection, and measurement equipment to capture and evaluate analog signal outputs. Close collaboration with other development team members such as embedded system, software and hardware engineers will be essential.
- Designing and programming of a graphical user interface (GUI) application for communication, configuration and results illustration of the Wafer Edge Screener inspection system, preferably using MATLAB or alternatively C++/.NET as programming language. The GUI application should be written for Windows, keeping portability to other operating systems such as e.g. Linux as an option. Communication interfaces mainly comprise of WebSockets via TCP/IP and UART.
- Producing and maintaining a structured and detailed development documentation of the steps above.

Requirements:

- Good programming skills in MATLAB (additionally C++/.NET an option)
- Willingness and capability to learn and understand new topics
- Capability of analytical thinking and ability to deal with abstract tasks
- Flexibility, capability of working independently on own initiative, being structured and organised
- Good command of English, spoken and in writing (alternatively, German), and good communicating skills

Beneficial/Nice-To-Haves:

- Experience with test program writing, object oriented programming and GUI design
- Knowledge of the concepts of version control (Git and GitFlow) and experience using Git
- Experience with Linux and command line / shell programming
- Experience with electronic circuits and electronic laboratory equipment
- Enthusiasm for programming and engineering problems, and a practical hands-on attitude



Profile Description

Marketing Trainee

For the marketing of our 2D precision laser measurement systems (laser scanner), the following tasks need to be addressed by a suitable individual, preferably a Masters level graduate of Business Administration who is interested in Marketing.

Tasks:

- Support for updating the companies homepage
- Creation of company and product presentations
- Creation of marketing material like brochures or designs for product manuals
- Support for planing and preparing usage of social media, blogs and newsletters
- Support for planing and preparing product fairs
- Support for product video presentations
- Support for public relations
- Support for ongoing market research

Requirements:

- Flexibility and capability of working independently on own initiative, structured and organised
- Good command of English, spoken and in writing (alternatively, German), and good communicating skills

Beneficial/Nice-To-Haves:

- Education and experiences with marketing

