

PhD position 2: Global criticality assessment based on feature surrogates	
Employers	
Prof. Dieter Gruber from Polymer Competence Center Leoben GmbH (PCCL) and DI Thomas Krivec from AT&S Austria Technologie & Systemtechnik AG (AT&S) , both in Leoben, Austria are looking for a PhD candidate to join a three-year research training within the EU-funded MCSA industrial doctorate MIRELAI . You will be enrolled in the PhD programme of Montan University Leoben (MUL) and supervised by Prof. Dieter Gruber (PCCL).	
Project description	
<ul style="list-style-type: none"> · Development and calibration of a data driven surrogate model of a PCBA feature. · Implementation of a script-based approach to apply the surrogate model for reliability assessment within a standard High-Density-Interconnect (HDI) PCB). · Identification if of critical instances and automatically repeated FE feature model simulations. Global feature critically assessment based on surrogate model and simulation results. · Validation based on experimental measurement results. 	
International mobility	
As a PhD candidate, you will be employed for 18 months each by PCCL and AT&S. During the placement at PCCL, you will also undertake a 1-month placement at IMEC, supervised by Dr. Bart Vandevelde.	
Requirements	
Specific Eligibility Criteria on the Horizon Europe: Marie Skłodowska-Curie (MSCA) programme apply, including the mobility rule and PhD rules. Applicants of any nationality are welcome.	
Additional requirements	
<ul style="list-style-type: none"> · Master's degree in mathematics, physics or data science/machine learning. · Background in machine learning, python programming and FE simulation · English proficiency (e.g., IELTS, TOEFL, or similar test, not for native speakers) 	
The monthly support and benefits	
<ul style="list-style-type: none"> · The successful candidate will benefit from an international scientific network of academic and industrial partners with research excellence in microelectronics reliability based on experimental characterization, simulation, data-driven approaches and machine learning · Flexible working hours and part-time home office · Personalised career development plans will be established to support the needs of the PhD candidate · The Phd candidate will receive an attractive salary in accordance with the MSCA regulations. The financial package will include: 1) Living allowance of €3,450 (country correction coefficient applies), 2) Mobility allowance of €600, 3) Family allowance (€660), if applicable. The exact (net) salary will be confirmed upon appointment and is dependent on local tax, social and health insurance regulations and the country correction factor 	
Application	
Required documents:	Complete applications in English should include: <ul style="list-style-type: none"> · CV · Letter of motivation · Letter of recommendation · English language proficiency certificate(s) (not for native speakers)
Selection process:	<ul style="list-style-type: none"> · Our selection procedure for PhD position is open, transparent, merit-based and in line with the principles set out in the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers · The application dossier needs to be submitted as a single PDF file to dieter.gruber@pccl.at by 01-01-2023. Please indicate in the subject line: 'MIRELAI: PhD position 02 - your name' · Pre-selected candidates will be invited for interviews by 15-01-2023. Unsuccessful applicants will not receive any notification
Application deadline:	08-01-2023
Expected start date:	The individual PhD project is set to start between 01-01-2023 and 01-04-2023
Contact person for enquiries:	Prof. Dr. Dieter P. Gruber Email address: dieter.gruber@pccl.at , Phone: +43 3842 42962-0