



Eures Trento – Agenzia del Lavoro Provincia Autonoma di Trento

PROFILE	RESEARCHER ON FORMAL VERIFICATION OF COMPLEX SAFETY-CRITICAL SYSTEMS, CENTRE FOR DIGITAL INDUSTRY, FBK
N. POSTS	1
LOCATION	TRENTO (ITALY)
VALID TILL	05.01.2021
DESCRIPTION	<p>The position is opened by the Embedded Systems Research Unit (ES Unit) of the Digital Industry, Center of FBK. The research activities will be part of the VALU3S ECSEL projects and will focus on one or more of the following topics:</p> <ul style="list-style-type: none">• Model checking of hybrid systems• Model checking of control software• Model-based safety analysis of autonomous systems• Integration of model checking, testing, and runtime verification• Application of formal methods to industrial case studies (avionic or agriculture domains) <p>Main Task: The activity will include analysis of the state of the art and of an industrial use case, identification of gaps between the two, development of new techniques, extension of existing tools, and their application in the industrial use case. This will include software development and documentation participation in project meetings as well as contributing to project deliverables.</p> <p>Requirements:</p> <ul style="list-style-type: none">• PhD in Computer Science, Mathematics or Electronic Engineering or equivalent 3-years research experience• Knowledge in formal methods or testing or in general verification and validation of safety-critical systems• Ability to work in a collaborative environment and deliver in research and/or industrial projects• Accuracy, flexibility, proactivity, and goal orientation attitude• Oral and written proficiency in English <p>Preferred qualifications:</p> <ul style="list-style-type: none">• Background in mathematical logic• Programming skills• Experience in modelling and formal analysis of Cyber-Physical Systems• Background in formal safety assessment• Background in model-based design• Background in software engineering <p>Employment: fixed term contract (2 years) full time; Start date: February 2021 (due to the Covid-19 emergency situation, the opportunity to start the activity remotely will be considered) Gross annual salary: about 39.500 € More info about benefits at https://www.welfarefbk.info/</p>
HOW TO APPLY	More info and application on line at https://jobs.fbk.eu/

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