POST-DOC – Projet EIPHI-BFC ML-FIAB

Job title	**Postdoctoral Research Position in Machine Learning for Software Testing**
Job type (PhD, Post-doc, Engineer)	**Post-doc**
Contract duration (months)	12 months
Qualifications (Master degree, PhD…)	PhD
Job hours (full time/ part time)	Full Time
Employer	UBFC – Université Bourgogne Franche-Comté
Host Laboratory	FEMTO-ST / DISC
URL Host Laboratory	http://www.femto-st.fr/en/Research-departments/DISC/
Address Host Laboratory	UFR Sciences et techniques. Bâtiment Métrologie. *16 route de Gray. 25030 Besançon* cedex.
Job description	The Department of Computer Science and Complex Systems (DISC) of the FEMTO-ST Institute is seeking a postdoctoral researcher to work on the ML-FIAB project. ML-FIAB is a research project, which aims at developing and validating the Machine Learning techniques for strengthening the reliability of control systems, both in the medical and intelligent transport fields. The originality of the ML-FIAB project is on the one hand to focus on the analysis of surveillance data by combining the training of Machine Learning (ML) models with automatic data alteration generation capacities, and on the other hand create synergy in the analysis of data from different types of surveillance data (medical monitoring, maritime traffic monitoring and connected vehicles). This project is held by FEMTO-ST (JF Couchot jean-francois.couchot@ubfc.fr) and is supported by the Bourgogne Franche-Comté region and the National Research Agency (ANR). As part of the ML-FIAB project, the postdoctoral researcher will conduct high-quality research under the supervision of Prof. Bruno Legeard. The postdoctoral researcher will be leading and contribution to research activities regarding ML-driven Testing, using trace analysis and test generation techniques. Responsibilities include: • Conducting research; • Publishing in top-notch conferences and journals; • Preparation and submission of related grant proposals; • Teaching courses; • Mentoring of undergraduate and/or graduate students.
Supervisor(s)	Prof. Legeard, Bruno (bruno.legeard@femto-st.fr)
Candidate profile	The position will require a Ph.D. degree in computer science or related topic. Candidates should have documented experience in conducting original and competitive research published in relevant leading peer reviewed conferences and/or journals.

	Background in software testing and machine learning are strongly recommended. Ability to work both independently and as a team player are expected. In addition to good theoretical knowledge, interest and experience in software development are highly welcomed. Candidates who are finishing their doctoral studies are eligible to apply; however, they must have obtained their PhD degree before taking up their position at FEMTO-ST.
Keywords	ML-driven Testing Machine Learning Software Testing
Application deadline	30th June 2020
Application *Depending on the type of position*	Please send the following documents (all in one PDF file) by e-mail to Prof. Bruno Legeard – bruno.legeard@femto-st.fr : 1) For EU candidates: Copy of your national ID card or of your passport page where your photo is printed. For non-EU candidates: Copy of your passport page where your photo is printed. 2) Curriculum Vitae (may include hyperlinks to your ResearchID, Research Gate Google Scholar accounts). 3) Detailed list of publications (may include hyperlinks to DOI of publications). 4) Letter of motivation relatively to the position (Cover Letter) in which applicants describe themselves and their contributions to previous research projects (maximum 2 pages) 5) Copy of your PhD degree if already available. 6) Coordinates of reference persons (maximum 3, at least your master thesis supervisor): Title, Name, organization, e-mail. If you have questions regarding the application, please contact the supervisor.