Postdoctoral researcher in the field of Data analytics and Machine learning for digital transformation in industry, Luxembourg Institute of Science and Technology Department of Computer Science and Mathematics, Luxembourg.

JOB DETAILS
Title Postdoctoral researcher in the field of Data analytics and Machine learning for digital transformation in industry 4.0 (M/F)
Employer Luxembourg Institute of Science and Technology (LIST)
Job location 5, Avenue des Hauts-Fourneaux, L-4362 Esch-Sur-Alzette, Luxembourg
Published July 30, 2019
Application deadline Unspecified
Job types Researcher, Research assistant
Fields Algorithms, Statistics, Data Mining, Data Structures, Databases, Computational Sciences, Big Data, Machine Learning

JOB DESCRIPTION
Fixed term contract of 2 years | Fulltime/40h | Belval

Context
With a team of more than 100 highly skilled researchers and engineers from various disciplines, the ITIS Department addresses the technological, organizational, human and economic aspects of innovative IT services. Research areas are based around the innovation of services with a high level of information intensity and a level of quality allowing trust to be gained in their use and for value to be generated around new business models.
The successful candidate will actively contribute to the research and technological activities in an interdisciplinary research unit that aims to enhance Luxembourg's international competitiveness in the area of business analytics applied to big data and therefore significantly participate in the country's socio-economic development.
For this position, we are looking for a highly motivated postdoctoral researcher to play a key role in an ambitious Industry 4.0 project, which aims to leverage advanced analytics and machine learning in order to improve product quality in manufacturing processes. The selected candidate will contribute to Research and Development activities in this collaborative project between ArcelorMittal and LIST in Luxembourg.
Description
As a Postdoctoral Researcher, your main tasks will be to:
Collaborate with the industrial partner to gain an in-depth understanding of the process and the problem statement
Collect, clean, structure and analyse data
Conduct literature reviews
Develop optimized models for specific problems
Analyse errors and model performances
Communicate results through presentations, scientific publications and reports

Profile
Education
Hold a PhD degree in quantitative domains such as Computer Science, Statistics, Maths or Physics, with a specialization in Machine Learning, Data Analytics and related fields
Competencies
Relevant research experience in the application of advanced analytics and machine-learning techniques
Strong skills in Python and/or R

Experience with data visualization tools/libraries

Knowledge of SQL is a plus

Strong interest in engaging in innovative value-creation activities with industrial partners

Track record of research dissemination including peer-reviewed publications is a plus

Knowledge of the manufacturing domain and the digitalization of the processes is also a plus

Demonstrated ability to generate new ideas, concepts, models and solutions

Collaborative skills, initiative, result-oriented, excellent organization and capacity to work in an interdisciplinary environment

Excellent analytical and report-writing skills

Excellent communication skills (oral, written, presentation)

Language

Fluency in English is mandatory

Reference: ITIS-2019-014

Application documents:

CV

Cover letter