Postdoc position @AMU Marseilles, France

Data Quality-As-A-Service:
Computing, Learning, and Querying Data Quality Indicators

* Position: Post-Doctoral fellow
* Time commitment: Full-time
* Starting date: Flexible, beginning from Feb 2019 or thereafter until Sept. 2019
* Duration: 12 months
* Indicative salary: Depending on experience from 1,980 Euros to 2,320 Euros net per month (2,460 Euros to 2,890 Euros gross per month) with social security benefits
* Hosting lab: LIS Lab (CNRS UMR 7020), Aix-Marseille University
                       Marseilles, France

* How to apply: Send your complete CV including a full publication list (and if possible a link to your PhD thesis) to laure.berti@lis-lab.fr and noel.novelli@lis-lab.fr

The candidate will participate in the extension of a data science platform dedicated to enhancing the quality of healthcare data. The first step concerns prototyping a library of user-defined functions and machine-learning based algorithms for computing data quality indicators and their integration into this platform for real-world healthcare applications. The second step is to extend a query language (SPARQL or SQL) to query data with declaring constraints on their quality. The work will be carried out in the context of QualiHealth, a multi-partner project recently funded by ANR (the French Agency for Research) and the creation of the new line of research initiatives in Data Science and AI at LIS Lab.

* The main missions are:
(i)   Research on user-defined functions for data quality profiling of healthcare data
(ii) Designing learning algorithms to discover data quality rules
(iii) Prototyping and testing the query language extension for declaring, manipulating and learning data quality indicators and quality constraints
(iv) Integration and interfacing with the platform.

* Required Profile:
   o Ph.D. in Computer Science
   o Experience in machine learning and complex data analysis and/or data management
   o Programming skills in Python
   o Skills on big-data platforms (Hadoop/Spark)
   o Good written and verbal communication skills