Title: **Advanced Uncertainty Quantification Methods for Optimization**

A Post-Doc Position is opening at Inria Saclay Île-de-France on “Advanced Uncertainty Quantification Methods for Optimization”. The Post-Doc will be hosted at the Center for Applied Mathematics (Ecole Polytechnique, CNRS, Inria) and founded by ArianeGroup, a joint venture of the European aerospace company Airbus and the French defense group Safran.

The goal of the research is to develop original representations and algorithms to perform Uncertainty Quantification (UQ) analysis in complex time-dependent simulations, and apply these methods to robust optimization problems.

The candidate should have strong backgrounds in applied mathematics and scientific computing. An experience with uncertainty quantification methods or optimization will be a plus. Applicants holding a Ph.D. in Applied Mathematics, Computer Science, Data Science, Mechanical Engineering, or other relevant areas should submit their curriculum vitae electronically, with three reference contacts and copies of selected publications.

The expected starting date is by September 2020, with an overall duration of 18 to 24 months.

Monthly gross income: 2653 euros.

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