JOB DESCRIPTION

Vacancy Ref: A146

Job Title:	Research Associate in in-network flow processing	**Present Grade:** 6
Department/College:	School of Computing and Communications	
Directly responsible to:	Professor Laurent Mathy	
Supervisory responsibility for: None		
Other contacts **Internal:** None **External:** Other research co-workers on the EU FP7 CHANGE project		

Major Duties:

The primary role of the research associate is to participate in the work package concerned with the design and development of the flow processing platform, within the context of the EU FP7 CHANGE project on Enabling Innovation in the Internet Architecture through Flexible Flow-Processing Extensions. Core to this is the details of the definition, design and implementation of the flow processing system, while considering systems performance and scalability as the overriding concerns.

Beyond the design and development of fast path flow-processing primitives, the appointed research associate will also be required to help design and develop the platform controller, which will handle requests for flow processing, as well as map and instantiate these onto the available hardware resources. Associated with this will be the identification and specification of metrics to characterise quantitative flow processing and resource consumption requirements.

The research associate will also partake in the work on Network Architecture Implementation, aiming to support the distributed deployment, within the Internet, of the above mentioned flow-processing platform, as well as conduct proof-of-concept experimentations.

More specifically, the post will also involve the following core duties:

1. To undertake research necessary to achieve the aims of the EU FP7 CHANGE project, taking direction from the Lead.
2. To attend project meetings.
3. To contribute to the planning, development, publication and promotion of project research.
4. To contribute to the high profile of the research team through excellence in research, co-authorship of publications and participation in dissemination of research results.
5. Any other duties appropriate to the grade as delegated by Prof. Laurent Mathy.