

**UNIVERSITY OF L'AQUILA
CENTRAL ADMINISTRATION
HUMAN RESOURCES DEPARTMENT
Public Announcements and Selections Office**

**ANNOUNCEMENT
(ENGLISH SUMMARY)**

DECREE OF THE RECTOR NO. 16638 - 2015 (G.U. NO. 42.C1 – 05.06.2015)

A public selection procedure for the recruitment of one full-time, three-year researcher position is being held at the University of L'Aquila in compliance with art. 24, comma 3, letter a, of law n. 240, 30th December 2010.

Competition Sector: 05/D1

Scientific Disciplinary Sector: INF/01

Department of Information Engineering, Computer Science and Mathematics

Project Title

European Research Project: UE H2020 CHOReVOLUTION n. 644178.

Project Summary

Automatic synthesis of dynamic and secure software choreography for Future Internet.

The researcher selected will be required to carry out the following:

Research:

Research activity is to be carried out within the European Research Project - H2020 CHOReVOLUTION n. 644178 - regarding the automatic syntheses of choreography software for coordinated software service distribution (participants in business processes modelling notation - Business Process Modelling Notation version 2 - BPMN2). In particular, the research activity shall focus on the study and use of BPMN2 as a notation to specify business processes in a graphic and intuitive way, so it can also be employed by users who are not modelling domain experts - e.g. by business domain experts. Creating a platform for the automatic syntheses of choreography software for coordinated software service distribution (business process participants BPMN2) able to evolve and adapt to run time. Therefore, the research activity to be carried out aims mainly at defining formal methodology, planning techniques and developing a platform for automatic syntheses of business processes. In particular, the approach must foresee the automatic generation of software artifacts able to distributively coordinate a series of software services adopting the choreographies. Furthermore, the approach taken must also foresee the generation of additional software to be modularly coordinated with the latter in order to allow the choreography to evolve and adapt to run time. To fulfill such objectives techniques for the development of applications that are adaptable to contest and to the execution environment and its resources, shall need to be studied.

Teaching activities and integrated services for students:

The researcher selected will be required to carry out teaching activities in basic computer science courses and in advanced courses in the field of model-driven engineering. In this way, study course requisites shall be met and maintained and teaching can be enhanced. The researcher will also be asked to provide students with any necessary assistance and training and to carry out tutoring activities for ICT Ph.D students.

Research and teaching activities are to be carried out at:

Department of Information Engineering, Computer Science and Mathematics - University of L'Aquila

Number of hours required for teaching and integrated activities:

350 hrs. per year. Total number of hours required for research, teaching and integrated activities: 1,500 hrs. per year.

Salary:

Standard initial salary for confirmed full-time researchers.

Qualifications and Competence Required

Applicants wishing to take part in the present selection procedure must possess the following qualifications:

Ph.D in Computer Science and Applications, or equivalent degree, obtained in Italy or abroad, or, alternatively:

V.O. Degree in Computer Science (former Italian Degree) or Specialist/Master Degree in the corresponding degree classes indicated in Ministerial Decree n. 509/99 together with a professional C.V. certifying the applicant's competence in the fields of Software Engineering and Model-Driven Engineering with particular focus on modelling, analyses and synthesis of complex software systems. The applicant is also expected to possess scientific, planning and administrative know-how in drawing up, coordinating and implementing national and European research projects. The applicant must also be able to promote research and organise research groups with international liaisons in the aforementioned Department.

Foreign Language Requisite:

English

Application period:

05.06.2015 / 06.07.2015

To consult the complete text of this announcement (in Italian) please visit the corresponding webpage in our Italian site.