

## PhD Scholarship Available

*Service-Oriented Applications (SOA) Research Group  
Fondazione Bruno Kessler  
Trento, Italy*

**Deadline:** April 8, 2013,

The Service Oriented Applications (SOA) Research Group (<http://soa.fbk.eu>), part of the Center for Information Technology (IRST) of the Bruno Kessler Foundation in Trento, Italy (<http://cit.fbk.eu/>), is seeking prospective PhD students interested in undertaking their PhD research in the following area.

### Internet of Services

Internet of Service (IoS) is a novel and promising research area that is gaining more and more interest among the research community and whose enormous potential has been clearly recognized by the industry. The main challenge of IoS is to give to billions of interested users a transparent, seamless, and trustworthy access to the millions of services available on the Web and on mobile phones. This problem cannot be handled by simply extending existing serviced-oriented approaches, since it requires a paradigm shift from software services to real world services, from application-centered services to user-centered services, from Intranet to Internet.

The specific research area for this call is the investigation of novel approaches to service composition, with the aim to provide methodologies and techniques for the development of large-scale systems, where a large number of participant services need to be composed and customized at runtime for a specific situation and user's need.

The research activities will take place at FBK-SOA (<http://soa.fbk.eu/>), the Service Oriented Applications research group within Fondazione Bruno Kessler.

Selected candidates, if not already enrolled in a PhD Program, will be invited to apply for PhD position at a national PhD School.

### How to apply

Interested candidates should apply by sending email to [bucchiarone@fbk.eu](mailto:bucchiarone@fbk.eu) with a Curriculum Vitae, and three reference persons. PDF format is strongly encouraged.

Emails should have '**SOA/phd**' as subject.

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## The FBK-SOA Research Group

FBK-SOA has a recognized leading position in the fields of Service Oriented Computing and Internet of Services, both in terms of research and technology transfer activities. The core research area for FBK-SOA in the last years has been the advanced engineering and management techniques and methodologies for service-based platforms and applications. Its scientific results include: service composition, monitoring and verification; service contracts and service level agreements; service adaptation and evolution.

All the techniques and tools, developed by FBK-SOA during more than of a decade of research, are integrated in the ASTRO toolset (<http://www.astroproject.org/>). ASTRO, developed and maintained by FBK-SOA, is one of the reference research platforms for service compositions, monitoring, verification, adaptation, and enactment. It exploits sophisticated AI-planning and automata theory based techniques to support the automatic composition and adaptation of service based applications.

The group is currently involved in several research projects, aiming both at investigating new methodologies, techniques and tools for Service Oriented Computing and at applying the group's expertise, techniques and tools to key application domains such as Smart Cities and Smart Mobility.

## Location

Trento is a lively town of about 100.000 inhabitants, located about 130 km south of the border between Italy and Austria. It is well known for the beauty of its mountains and lakes, and it offers the possibility to practice a wide range of sports. Trento enjoys a rich cultural and historical heritage, and it is the ideal starting point for day trips to famous towns such as Venice or Verona, as well as to enjoy great naturalistic journeys. Detailed information about Trento and its region can be found at <http://www.visittrentino.it/en>.