



**Topic:** SOA Governance infrastructure

**Where:** AGH University (Krakow) and BT Innovate & Design (Ipswich, UK)

**When:** *every summers, July 1<sup>st</sup> – September 30<sup>th</sup>*

**Number of places:** 1

**Context:** BT Research is part of the BT Innovate & Design division of BT Group (a top 500 world's largest corporations), a provider of communications solutions and services operating in 170 countries.

The security architecture research group (SARG) at BT investigates the areas of Service Oriented Infrastructure (SOI) and Cloud computing security and identity management. More specifically, the group's work encompasses the technological challenges related to security and service dependability for SOI and Cloud computing identity federation, distributed usage and access management, context-aware secure messaging, routing and transformation, and SOA security governance.

**Domain:** Service-Oriented Architecture (SOA) governance is a concept used for activities related to exercising control over services in an SOA. The focus is on those resources to be leveraged upon for SOA to deliver value to the business. To do so, SOA requires an effective governance infrastructure that is based on standards and includes governing services, policies and processes.

The market for SOA governance technologies is still in development and key actors include software and business integration giants such as IBM, Oracle, HP and SAP.

Potential technical innovations in this domain cover the areas of policy management & enforcement, service life-cycle administration and interaction regulation.

**Work:** The intern will be involved in the design and the prototyping of some of the research challenges aforementioned. More specifically, the work will involve collaborative design and development of policy driven middleware or management tools to be integrated with existing software. The intern will also have the opportunity to work on patentable and publishable work.

The intern will work in a very close collaboration with DSRG members (located at AGH Krakow), as well as with the BT SARG located in Ipswich, UK (100km north of London).

In addition to the Erasmus scholarship, an effort is currently underway to secure a BT studentship for the intern (around £1100 net per month).

Knowledge of SOA and Web Services, as well as the Java language and XML are essential. Interests in Cloud computing, security and computer networks would be a plus.

**Candidature:** To be sent to [pdl <at> agh.edu.pl](mailto:pdl@agh.edu.pl)