



**UNIVERSITÀ  
DI TRENTO**

**Department of  
Information Engineering and Computer Science**

**Università degli Studi di Trento  
Dipartimento di Ingegneria e Scienza dell'Informazione**

<b>Scholarship reference</b>	<b>B-APSS</b>
<b>Company (name and address)</b>	<b>Azienda Provinciale per i Servizi Sanitari, Dipartimento Tecnologie</b>
<b>Type of Scholarship</b>	<b>Professional Training</b>
<b>Title of Scholarship</b>	<b>AI-enabled Health Data Layer</b>
<b>Industrial Tutor (full name + email address)</b>	<b>Andrea Vielmetti Andrea.vielmetti@apss.tn.it</b>
<b>Academic Supervisor (full name + email address)</b>	To be defined

**Short Description of Internship and Thesis Activities, and Expected Outcome:**

The healthcare organization of the Autonomous Province of Trento (APSS) is developing a new data architecture (Data Platform) to analyse the data in the APSS systems in a timely, certified, secure and high-performance manner, enabling also artificial intelligence (AI) use cases for planning and management, to enhance the vast wealth of information of the Health Service, not only in a descriptive and retrospective manner, but also from a predictive and prescriptive standpoint. It is currently developing an ecosystem of data to handle the orchestration of the ETL processes focused on getting and manipulating data from different data sources, allowing medical data collection, qualification, integration and further business analysis using Data Mart and BI tools with curated content. It is also experimenting artificial intelligence techniques in various projects which analyses data for specific diseases and therapies, not yet integrated in the data platform.

The activities will be focused on accompanying the data platform evolution for exploiting the value of the large mass of health data currently available on operational systems and on the data platform for supporting standard BI and analytics and at the same time enabling new advanced analytics which make use of AI algorithms.

The expected outcome is on one side the contribution to the development of the future APSS data fabric and at the same time the experimentation of BI analyses on specific use cases that will be identified.

**Required Candidate Skills and Prerequisites:**



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