Università degli Studi di Trento  
Dipartimento di Ingegneria e Scienza dell’Informazione

<table>
<thead>
<tr>
<th>Scholarship reference</th>
<th>C-SIREN</th>
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| Company (name and address) | Siren Sindice Italia Srl  
Viale Trento 115/117,  
38017 Mezzolombardo, Trento, Italy |
| Type of Scholarship | Level 2 |
| Title of Scholarship | Graph layout algorithms for the Siren Graph visualization system |
| Industrial Tutor (full name + email address) | Fabio Tacchelli - fabio.tacchelli@siren.io |
| Academic Supervisor (full name + email address) | To be defined |

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

Project 3 aims to investigate and enhance graph layout algorithms for the Siren Graph visualization system, which is used to display complex knowledge graphs in investigative work. By conducting a literature review, developing a test environment, and comparing the performance and visual quality of various algorithms, the project seeks to integrate optimized, high-performance layouts into Siren Graph, minimizing edge overlaps and improving user experience for exploratory graph analytics.

Required Candidate Skills and Prerequisites:

- JavaScript and React
- Testing Frameworks
- Graph Theory and Algorithms
- Experience with Graph Visualization Tools
- Problem Solving and Analytical Skills
- Communication and Collaboration
Once the selection process is concluded, the company expects to interview the candidates before proceeding.