**Scholarship reference**  
I-SIREN

**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

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**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.

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**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.