

**PhD research topic proposal**  
**BME, Doctoral School of Mathematics and Computer Science**

**Name of supervisor :**

András Telcs

**Degree:**

prof.

**Title of the topic:**

Network and Visual Analytics

**Short description:**

The applicant can join to a vivid interdisciplinary team collaborating with the CERN (at Genf). The department has a joint research project on big data based network visualisation and analysis [project](#), [video](#).

The applicant's research is focused on the add-ons, to develop general and field specific network analysis tool. Depending on the applicant's background the research task can be more network-theoretical or more on the side of visualisation and interactive analysis side. Good command of scientific programming is a must.

The host of the research is the Department of Computational Sciences at Wigner Research Center for Physics. The institute and the department is equipped with excellent research infrastructure including library and computer facilities.

The department has strong focus on computational neuroscience and computational physics.

**Requirements:**

Good command of scientific programming is a must.

**Contact:**

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**Place of work:**

Wigner RCF

**Statement:** *The conditions of the research above are satisfied, the theme is confirmed by the Head of the Department/Institute*