



## **Researcher Position | Computer Science | Mechanistic Models in Medicine**

The team of [Tatjana Petrov](#) at the [Informatics Group](#) at the [University of Trieste](#) is looking for a researcher to join a project entitled “Reduced mechanistic models of circadian regulation towards personalised healthcare”, which combines **formal methods and dynamical system analysis** towards a novel model reduction framework for mechanistic models of molecular interactions. The project aims at personalized medical treatments based on improved understanding of **circadian regulation**, disruption of which significantly impacts overall health and well-being. Successful candidates will have the opportunity to closely work with the local as well as international experts in field of formal verification, systems and synthetic biology, and they will benefit from the innovative and vibrant environment at the Department, emerging around the newly established study programmes in [Data Science and AI](#).

### **Your responsibilities**

- Developing theory and software tools that ensure project progress and collaboration within the team
- (upon agreement) Coordinate and mentor student projects, support teaching activities of the group
- Write research papers and other publications

### **Your Competencies**

- MSc degree in computer science, mathematics or related field; A PhD degree is not compulsory but it is preferred for the position. Good communication and writing skills are essential.
- Experience in mathematical modelling and formal verification is an advantage.

### **We Offer**

- 2-year-long contract with salary €20267/year gross
- Open, motivated, interdisciplinary research environment
- Ability to work with world-leading scientists locally and internationally
- Working in Trieste, a multicultural city at the Adriatic sea, with a great scientific vocation.

We look forward to receiving your expression of interest (including a cover letter, a full CV, and names and e-mail addresses of two or more academic referees) by **September 9th 2024** directly to [tatjana.petrov@units.it](mailto:tatjana.petrov@units.it). The guidelines for formal application through the [PICA system](#) and the equivalence of foreign degrees based on Italian regulations will be communicated to you after receiving your expression of interest.