This subject requires common and basic knowledge

Results may be published in the Systems Biology Graphical Notation (SBGN) community

Main activities

Our previous work on some BIOCHAM static analyzers is described in Sylvain Soliman. Invariants and Other Structural Properties of Biochemical Models as a Constraint Satisfaction Problem: Algorithms for Molecular Biology, 7(10), 2012.

The work will involve using this information to design and experiment with different species placement strategies and reactions in the GraphViz visualization tool. The evaluation can be done on the BioModels model warehouse by comparing the results with the drawings of the corresponding publications.

Skills

This subject requires common and basic knowledge
in algorithmics, programming, graphs and graphics.
Specific knowledge of the Prolog programming language or of Computational Systems Biology will be a plus.

Benefits package
- Subsidised catering service
- Partially-reimbursed public transport
- Social security
- Paid leave
- Flexible working hours
- Sports facilities

Remuneration
500 euros/month