The Computational Epidemiology Lab at ISI Foundation offers a postdoctoral position in Complex Systems/Epidemic Spreading

POSTDOCTORAL POSITION IN COMPLEX SYSTEMS/EPIDEMIC SPREADING:

A 1+1 years postdoctoral position is available at the Computational Epidemiology Lab at ISI Foundation. The candidate is expected to work within the framework of the EC project PREDEMICS (http://predemics.biomedtrain.eu/cms/) with the aim of analyzing and modeling the emergence and spreading of infectious diseases.

We are looking for a strongly motivated person with excellent skills in theoretical modeling, computing, data collection and analysis, and a keen interest in multidisciplinary research. The candidate should have a PhD (or expect to have one for the starting date) in physics, applied mathematics, computer science, epidemiology, quantitative biology or any close related discipline. Proven ability to work independently and to quickly adapt to new scientific environments are essential for this position. Good communicative skills to successfully collaborate with the other members of the group, and a good knowledge of both oral and written English are required.

The selected candidate will join the Institute for Scientific Interchange Foundation (www.isi.it) in Turin, Italy and will work in collaboration with Dr. Vittoria Colizza and the members of the Computational Epidemiology Lab. The topics of the work will be marked by the objectives of the PREDEMICS project, that include the modeling of spatial spread of infection diseases affecting different types of hosts, and the study of virus mutation and evolution (with particular attention on influenza A virus). The work will be conducted in collaboration with the other partners of the project, including the Pasteur Institute (Paris, France), the Fundacio d'Ivestigacio Sanitaria de les illes Balears Ramon Llull (Spain), the Catholic University of Louvain (Belgium), the Universiy of Edinburgh (UK). The research work will be both computational (development of data-driven computational models) and theoretical (use of network physics approaches and more in general complex systems approaches for a theoretical characterization of spreading processes). Experience in complex systems and networks, epidemic propagation phenomena and/or evolution is highly desirable.

The position is available starting October 2012. Applications will be continuously received and evaluated until the position is filled.

Applications should be submitted to Dr. Vittoria Colizza via email (vcolizza@isi.it) and must include:

- letter of motivation;
- CV including the list of publications;
- up to 3 selected preprints/publications most relevant for this position;
- 2 letters of reference.