

**The Uri Nevo's Lab** searches for simple biophysical and mathematical laws that define the behavior of cells, and specifically of neurons. Our primary biophysical goal in our neurophysiological studies is to understand and measure the relation between neuronal activity and mechanical events. We combine the use of MRI, fluorescent microscopy and theoretical biophysical modeling. Our expertise in biophysical modeling has led us to develop Cell-Studio: a unique platform for agent-based modeling of complex biological systems, primarily the immune system.

In a separate track, we study new methods in NMR and characterize tissue microstructure. Specifically, we develop methods to perform biomedical NMR and MRI applications with an inhomogeneous and low magnetic field.

Additional info at: <https://www.nevolab.sites.tau.ac.il/>

### **A PhD / postdoc position is open in an exciting computational biology project**

We seek for talented candidates for a **PhD or a postdoc** position in a fascinating research project. The project is funded by the EU under the FET (Future and Emerging Technologies) call. The project combines state of the art software architectures and agent based modeling of complex biological systems. Additional info at: <http://www.in2sight.eu/>

#### **Requirements:**

An MSc or PhD in biomedical engineering, electrical engineering, computer sciences, or similar. Experience in software coding, and specifically in object oriented programming (C++ / Java / C#). Good inter-personal communicative ability. Fluency in English.

#### **Other advantages:**

- Prior knowledge in Biology
- Prior knowledge in biological modelling

**Start time and salary:** starting date is immediate and the gross salary is 2900 € per month.

**Location:** flexible, Milan, Italy or Tel Aviv, Israel.

#### **Research job characteristics:**

You will develop mathematical models of biological and biophysical processes.

You will collaborate with other software engineers and research scientists.

You will develop high-quality code that allows for both high-performance and easily understandable software.

You will gain experience in high-performance computing (including GPU), front-end UI, multi-threading and more.

You should be passionate about software practices that produce maintainable code, including: testing, continuous integration, code style conformity, versioning, documentation and code review.

Candidates should contact Prof. Uri Nevo: [nevouri@tau.ac.il](mailto:nevouri@tau.ac.il)

