

Postdoctoral Position in System Dynamics Modeling of Spinal Cord Regeneration

***Laboratory of Neurobiology and
Complex Dynamical Systems & Control Laboratory
Northeastern University, Boston, Massachusetts***

A Postdoctoral Research Associate position is available for joining an interdisciplinary research team established by the Laboratory of Neurobiology (PI: Professor Günther K.H. Zupanc; Department of Biology) and the Complex Dynamical Systems & Control Laboratory (PI: Professor Rifat Sipahi; Department of Mechanical and Industrial Engineering) at Northeastern University, Boston, Massachusetts, USA.

Funded by the National Science Foundation, the postdoctoral researcher will work on a project at the intersection of neuroscience, regenerative biology, applied mathematics, and system dynamics, involving computational and mathematical modeling of regeneration after spinal cord injury in regeneration-competent organisms. The successful candidate will have genuine interest in biological systems, and will hold a Ph.D. in a relevant discipline with strong background in modeling of dynamical systems, e.g., using agent-based modeling, partial differential equations, and/or a mix of similar techniques.

The appointed candidate will also have the opportunity to become involved in the writing of manuscripts, preparing grant proposals, supervising graduate and undergraduate students, and participating in outreach activities.

This position is available immediately for one year, with the possibility of extension for two more years. A competitive salary and fringe-benefits package will be offered. Please combine the following documents into a single PDF and send the PDF by e-mail to both principal investigators, Professor Günther K.H. Zupanc (email: g.zupanc@neu.edu) and Professor Rifat Sipahi (email: rifat@coe.neu.edu):

- * Motivation letter (no more than 2 pages)
- * Curriculum vitae (as detailed as possible; please present your journal publications separately from conference publications)
- * Names of at least three references, including contact details (one of which must be the PhD advisor of the candidate)
- * PDFs of possible publications