The Bhamla Lab at Georgia Tech is searching for an exceptional Postdoctoral Fellow to lead our molecular investigation into the learning mechanisms of the unicellular ciliate, Spirostomum. You’ll collaborate closely with a driven PhD student to unravel the correlation between its transcriptomic state and learning behavior.

**Project Description:** Join us at the Bhamla Lab as a Postdoctoral Fellow to manage cutting-edge transcriptomic research on learning in Spirostomum. We are looking for a detail-oriented scientist to adapt the innovative FluidFM platform and Live-seq method specifically for Spirostomum learning studies (1). Our team has secured funding to purchase the necessary equipment to initiate experimentation. We have successfully established biophysical models and physiological techniques to investigate the phenotypic learning behaviors of Spirostomum (2,3). Now, we seek your expertise to develop and refine biomolecular techniques to unravel its genotypic control.

**Why Join Us?** At the Bhamla Lab, we fuse biophysical experimentation, mathematical modeling, and robotic validation to uncover nature’s most extraordinary feats. From ultrafast movements to emergent collective behavior, and now exploring the mysteries of molecular memory, our mission is to decode how organisms perform the seemingly impossible. We are passionately and unapologetically curious, driven by the conviction that a persistent commitment to inclusivity fosters a more sustainable, progressive, and innovative society.

Engage in trailblazing research projects with a team that boasts a proven track record of publications in top journals like Nature, Science, and PNAS. Thrive in a dynamic and supportive environment that values diverse perspectives and fosters innovative thinking. Immerse yourself in the vibrant life of Atlanta, a city renowned for its exceptional restaurants, bars, and cultural hotspots. Enjoy the Belt Line, which offers seamless exploration of the city’s best, along with easy access to nearby hiking trails for a quick escape into nature. Benefit from the perks of a major metropolitan area without the high cost of living. Not to mention, with Atlanta being one of the host cities for the World Cup 2026, now is the perfect time to establish yourself in this invigorating city!

**Key Responsibilities**

- Lead the experimentation to establish transcriptomic analyses of Spirostomum during learning phases, collaborating with a PhD student who has developed controlled physiological studies on this behavior.
- Provide scientific directions to build a reference transcriptome and perform differential expression analysis on Spirostomum.
- Master and adapt the novel FluidFM OMNIUM Platform to implement the innovative Live-seq method on Spirostomum.
Qualifications

- PhD in Molecular Biology, Genomics, Biochemistry, Bioengineering, Chemical Engineering or a similar discipline.
- Strong background in Functional Genomics, Dynamic Transcriptomics, Systems Biology, Phenotypic Plasticity Research and/or Molecular Genetics.
- Experience obtaining time-series data to capture the dynamics of transcriptomic changes in response to stimuli or during developmental processes.
- A proven track record of scientific contributions, such as peer-reviewed 1st-author publications, is preferred.
- Ability to work independently as well as collaboratively within a team, providing support and contributing to a positive and productive work environment.
- Demonstrated ability to take initiative and act as a motivated self-starter, consistently going above and beyond regular duties without requiring prompting.

Compensation: $57,000 annual salary (negotiable) plus benefits with an expectation to work 40 hours per week.

APPLY! Applications are currently being accepted and will be evaluated on a rolling basis with the goal of hiring as soon as possible. We have funding available for one scientist, for up to a 3-year position, renewed every year based on performance. Email saadb@gatech.edu with application materials.