

## Postdoctoral Fellows to Uncover the Physics of Living Systems

The Bhamla Lab at Georgia Tech blends experiments, mathematical modeling, and robotic validations to understand how organisms do incredible things. We boldly embrace the incredible diversity of living systems and proudly study the following organisms, in the lab and in the field: ultrafast ciliates and cyborg synthetic cells (*Spirostomum*), emergent entangled collectives and robots (worm blobs), interfacial aquatic bugs (springtails, striders, walkers), insect fluid dynamics (sharpshooters, cicadas, termites), elastocapillary dynamics (jumping nematodes, bird feathers), slingshot spiders (Amazon Rainforest), and vertebrate biomechanics (flamingoes at Zoo Atlanta). *We are passionately and unapologetically curious about nature's extraordinary lifeforms!* 



**IMPACTFUL SCIENCE** Since starting in 2017, our lab has published in *Science, Nature, PNAS, Nature Biomedical Engineering*, and *PLOS Biology*. Our work also garners wide media coverage, including a TED talk (will be published soon), NY Times, Late Show with Colbert, and Scientific American. Our impactful work leads to exciting careers: lab alumni have started their own research labs at R1 institutions.

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**OPENINGS FOR CURIOUS, CREATIVE AND COLLABORATIVE SCIENTISTS** Our lab has funding from multiple NSF grants including CAREER (1,2,3), a NIH MIRA and philanthropic foundation awards. Our *flexible* funding enables us to bring in curious, self-directed, and collaborative scientists (like you!). Our <u>ideal</u> candidates are:

- a. cellular and organismal biophysicists who will join ongoing projects or explore new systems.
- **b.** engineers who will apply quantitative principles to organismal biomechanics and biofluid dynamics.
- c. roboticists who will build transformational machines inspired by our lab's organisms.

**d.** theoretical physicists and applied mathematicians who thrive on closely collaborating with experimentalists to develop predictive models that uncover elegant, unifying principles from biophysical studies.

**THE OPPORTUNITY** 1. Join a diverse team of big-thinking engineers and bold scientists who are also kind, collaborative, and excited by new ideas. **2.** Embark on intellectual and physical voyages to uncover physics of living systems from mundane backyard ponds to the marvelous Amazon Rainforest. **3.** Work at Georgia Tech's top-ranked School of Chemical Engineering. We are also a part of NSF's Physics of Living Systems (PoLS) Network. **4.** Live in thriving Atlanta, the `city in the forest', with access to fantastic food, music, hiking and weather. *The standard salary (\$48k) in Atlanta goes much further than in New York, Boston, or San Francisco.* 

**APPLY!** Applications are currently being accepted (as of Feb 17, 2022) and will be evaluated on a rolling basis with the goal of hiring as soon as possible. We have funding available for 2-3 scientists, for up to 3-year positions, renewed every year based on performance. Email **saadb@gatech.edu** with application materials.

**NOT SURE IF THIS YOU?** We highly encourage you to reach out and chat with Saad to discuss fit and possibilities. We will also be at the 2022 APS March Meeting.