



Senior Postdoc Position

Physical AI Lab

Research Lab at Ben Gurion University

Ben-Gurion University of the Negev (BGU) is one of Israel's leading research universities. BGU has around 20,000 students and 4,000 faculty members across multiple Faculties and Centers. In 2021, the brand-new Physical AI (PAI) Lab was established at BGU.

“PAI refers to the theory and practice of creating physical systems capable of performing tasks that are typically associated with intelligent organisms. The PAI methodology inherently combines the considerations of materials, design and manufacturing.”

Aslan Miriyev, Mirko Kovač, Nature Machine Intelligence, 2020

The PAI Lab's mission is to develop breakthrough approaches, methodology, and educational basis in physical AI via unveiling the scientific fundamentals of creating nature-like intelligent and collaborative robotic systems, allowing for symbiotic human-robot-nature ecosystems.

We are seeking a Senior Postdoctoral Research Scientist for a fully funded position:

Description:

As a senior postdoc in the PAI Lab, You will lead multidisciplinary research toward the creation of soft robotic systems possessing physical AI. Specifically, you will work at the nexus of functional matter, processing, design and manufacturing to develop material-based actuator-sensor-control loops for soft robots with learning-based control.

In addition, You will assist in managing the new cutting-edge equipment purchased for the PAI Lab through learning and training activities. Your management skills will also help you co-leading various aspects of the lab routine, including administration, working with graduate and undergrad students, grant applications, and others. You will directly report to the Lab Head, Dr. Aslan Miriyev.

Qualifications:

- Ph.D. in Mechanical Engineering, Materials Science, Chemistry, or related discipline
- Strong motivation to conduct research involving skills in *multiple* disciplines
- Strong experience in soft functional materials (actuation, sensing, control), their processing, design and manufacturing
- Experience in design (CAD; preferred: Rhino) and additive manufacturing of materials
- Knowledge of coding and machine learning
- Proven abilities of self-educating and successive implementation of gained skills
- Project management skills
- Ability to work independently and in a team
- Proven experience in composing academic writing pieces (manuscripts, reviews, etc)
- Excellent written and spoken English



To apply, please email **Dr. Aslan Miriyev** (miriyev@bgu.ac.il) by **July 31, 2022**, and entitle your email "Postdoc position in your lab." Please include a letter of motivation (up to 1 page), CV, Ph.D. diploma, a list of publications including Your role, and contact details of two referees.