

Open PhDs (fully funded) and Postdoc Positions at RUMI Lab (UK, University of Essex) for Magnetic based Microrobots (InTarget Project)

Overview:

The InTarget project focuses on leveraging advanced magnetic microrobotics for cancer treatment. Our project will develop a groundbreaking robotics architecture using a hybrid electromagnetic/permanent-magnet actuation system, enhancing the control and efficiency of magnetic microrobots. **Focus:** Improving the control and manoeuvrability of magnetic microrobots through use of hybrid actuation. **Application:** Steering drug-loaded magnetic nanoparticles (MNPs) effectively to target tissues.

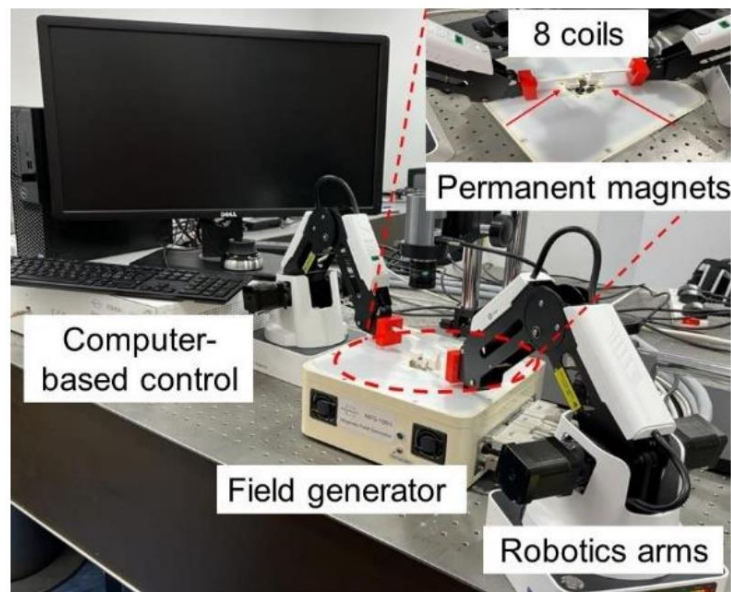


Fig. 1 Magnetic based robotics architecture

Join Robotics for Under Millimetre Intervention lab (RUMI Lab, University of Essex, UK)

Access state-of-the-art facilities at the **RUMI lab (University of Essex, UK)**. The lab is equipped with collaborative robots, magnetic manipulation systems, 3D printing facilities (SLS, SLA, PLA) and clean rooms.

<https://sites.google.com/view/rumilab/>

What we are looking for:

Postdoctoral Position (Early Career):

- Ideally within five years post-PhD, candidates with a strong background in robotics, magnetic field control, and related areas are encouraged to apply.

PhD Studentships (Fully funded):

- Open to motivated individuals eager to contribute to magnetic microrobotics and cancer research.

Application Process:

Interested candidates should send their CV, detailing relevant experience and skills, to Dr Ali Hoshiar a.kafashhoshiar@essex.ac.uk. Interested candidates are also invited to engage in in-person discussions for additional details at MARSS2023 in Abu Dhabi !!