



Open Position: **PhD studentship in the Development of Ion Soft Landing Instrument**

Aim: Design, build, and test an ion soft landing instrument for single molecule imaging.

Fields: Instrument building, Ion optics, Mass spectrometry, Physical chemistry.

Techniques: Electrospray ion beam deposition (ESIBD), Ion beam manipulation, Ion trajectory simulations.

We offer:

1. A **PhD position** at the International Max Planck Research School for Condensed Matter Science (IMPRS-CMS) with work contract including full social security benefits, funded by ERC Starting Grant Project GlycoX, and PhD degree awarded by the University of Stuttgart, Department of Chemistry.
2. Access to cutting-edge research infrastructure, workshops, and supercomputers in the Max Planck Society to support *your* scientific goals.
3. Opportunities to collaborate with the Nanoscale Science Department and external groups to furnish *you* with unique interdisciplinary scientific challenges.
4. Training in *both* experimental and computational techniques to finesse *your* scientific profile.
5. Engaging environment to nourish *your* scientific independence.
6. Support to attend workshops and conferences to develop *your* scientific network.
7. Mentorship in proposal writing, management, and communication skills to equip *you* with transferable skills.

Your project: Oversee the design, development, building, and testing of the next generation of ESIBD instrument capable of generating, preserving, and landing exotic molecular ions for single molecule imaging on surfaces.

We seek someone who is:

Curious, enthusiastic, team oriented, fluent and articulate in oral and written English, a holder of MSc in Physics, Electrical Engineering, Nanoscience, Chemistry (Physical-, Analytical-), or equivalent (applications with BSc with Honors are also considered). **We prioritize candidates with knowledge of instrumentation and electronics in mass spectrometry and/or gas-phase ion spectroscopy.** Experience in electrospray, ultrahigh vacuum systems, and/or ion beam analysis, simulation, and manipulation are advantageous.

To apply:

Please email **Dr. Kelvin Anggara** (k.anggara@fkf.mpg.de) using the title 'GlycoX_PHD2' and submit as a single PDF: **(i)** *one-page* cover letter (explain *in specifics* why this lab, why you are a good fit for this lab, and how this position furthers your career) and **(ii)** CV (include publication list and contacts of two referees).

Possible starting date is 1st May, 2024 or earlier. Review of applications begins immediately and will continue until the position is filled. The Max Planck Society endeavors to achieve gender equality and diversity. We seek to increase the number of women in areas where they are underrepresented and therefore explicitly encourage women to apply. The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from individuals with disabilities.

Anggara Group

At Max Planck Institute for Solid State Research
Heisenbergstrasse 1, DE-70569
Stuttgart, Germany
<https://anggara.science>



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