

PhD Openings in The Kumar Lab

The Kumar lab of **Advanced Techniques for Optimal Manufacturing and Imaging of Colloids (ATOMIC)** is seeking excellent undergraduate and master's students for PhD openings in the lab starting Aug 2024 and Jan 2025.

Research areas of focus are –

- Analytical liquid-phase transmission electron microscopy of soft materials.
- Organic-Inorganic nanoparticle self-assembly for optoelectronic materials.
- Machine learning for automated imaging and structure determination.

Candidates with past experience in electron microscopy, image segmentation, and nanoparticle synthesis are encouraged to apply.

To apply, please email [Prof. Prashant Kumar](mailto:kumarlab.ntuapplicant@gmail.com) at kumarlab.ntuapplicant@gmail.com with the following –

1. Detailed CV.
2. Cover letter.
3. Names of three references.

Excellent candidates will be considered for the [NTU Research Scholarship](#) ensuring support for the entire 4-year duration of their PhD studies.

Post-Doctoral Openings in The Kumar Lab

The Kumar lab of **Advanced Techniques for Optimal Manufacturing and Imaging of Colloids (ATOMIC)** is seeking excellent PhD students in their final year for Post-Doctoral openings in the lab starting Jan 2025.

Research areas of focus are –

- Analytical liquid-phase transmission electron microscopy of soft materials.
- Organic-Inorganic nanoparticle self-assembly for optoelectronic materials.

Candidates will have access to [state-of-the-art aberration corrected](#) JEOL and Thermo-Fisher TEMs with in-situ LP-TEM capabilities. We are looking for candidates with *interest/experience in analytical TEM imaging, spectroscopy and in-situ liquid phase TEM studies*. Experience in nanoparticle synthesis and microfluidic device fabrication is preferred, but not necessary.

To apply, please email [Prof. Prashant Kumar](mailto:kumarlab.ntuapplicant@gmail.com) at kumarlab.ntuapplicant@gmail.com with the following –

1. Detailed CV.
2. Cover letter detailing past experiences and future aspirations.
3. Names of three references.

Candidates with excellent record will be supported for applying to the [NTU Presidential Post-Doctoral Fellowship](#) and [Research Assistant Professorship](#) scheme.

