# NTU Supervisors & Projects

## Materials Science and Engineering

<table>
<thead>
<tr>
<th>Supervisor</th>
<th>E-mail Contact</th>
<th>Research areas of potential PhD studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ali Gilles Tchenguise Miserez</td>
<td><a href="mailto:ali.miserez@ntu.edu.sg">ali.miserez@ntu.edu.sg</a></td>
<td>Biological and Bioinspired Materials, Protein Chemistry, Biomimetic peptide synthesis, Biophysics of structural proteins, Protein engineering of high-performance fibers and materials, NextGen Sequencing of Biological Materials, Nanomechanics, Biofuelling.</td>
</tr>
<tr>
<td>Chen Xiaodong - Assistant Chair (Graduate Studies)</td>
<td><a href="mailto:chenxd@ntu.edu.sg">chenxd@ntu.edu.sg</a></td>
<td>Integrated nano-photo-bio interface, Bio-inspired supramolecular materials for bio-diagnostics and biotherapeutics, bio-inspired materials for energy conversion and storage.</td>
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<tr>
<td>Chen Zhong</td>
<td><a href="mailto:aschen@ntu.edu.sg">aschen@ntu.edu.sg</a></td>
<td>Photocatalysts for clean energy and environmental applications; Thin films and surface engineering; Materials for electronics; Mechanical behavior of materials</td>
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<td>Choong Swee Neo, Cleo</td>
<td><a href="mailto:cleochoong@ntu.edu.sg">cleochoong@ntu.edu.sg</a></td>
<td>Electrically active substrates for cellular growth, Biomaterial regulation of endothelial cell-mediated thrombogenicity.</td>
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<tr>
<td>Gan Chee Lip</td>
<td><a href="mailto:clgan@ntu.edu.sg">clgan@ntu.edu.sg</a></td>
<td>Reliability Study of 3D Integrated System for Extreme Environment</td>
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<td>Hng Huey Hoon - Associate Chair (Academic)</td>
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<td>Thermoelectric materials, Energy Storage.</td>
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<td>Hu Xiao</td>
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<td>Nano-reinforcement and nano-toughening of polymer nanocomposites, Functional polymer and hybrid materials for energy conversion and storage, Templated assisted synthesis of semiconductor oxide quantum dots, nanotubes, nanorods and hollow nanospheres, Electronic and photonic properties of functional hybrids nanomaterials, Novel responsive polymers and hybrids for next generation membrane technology.</td>
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<td>Joachim Loo Say Chye - Assistant Chair (Students)</td>
<td><a href="mailto:joachimloo@ntu.edu.sg">joachimloo@ntu.edu.sg</a></td>
<td>&quot;Designer&quot; Particles – A platform for revolutionizing drug delivery.</td>
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<td>Lam Yeng Ming</td>
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<td>Nanostructured materials for Energy application, Polymer self-assembly for solar cells application.</td>
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<td>Lu Xuehong</td>
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<td>Polymer nanocomposites and their crystallization behaviors, electrospinning of polymer nanocomposites, organic-inorganic hybrid materials for electrochromic applications.</td>
</tr>
<tr>
<td>Name</td>
<td>Email</td>
<td>Research Focus</td>
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<tr>
<td>Lydia Helena Wong</td>
<td><a href="mailto:lydiawong@ntu.edu.sg">lydiawong@ntu.edu.sg</a></td>
<td>Synthesis and design of semiconductor materials for solar cell and solar water splitting</td>
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<td>Ng Kee Woei</td>
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<td>Biomaterials, Tissue Engineering</td>
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<td>Raju V Ramanujan</td>
<td><a href="mailto:ramanujan@ntu.edu.sg">ramanujan@ntu.edu.sg</a></td>
<td>Nanomaterials for energy, biomedical and transducer applications, Magnetic materials, energy efficient systems, functionalized nanoparticles.</td>
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<td>Subodh G Mhaisalkar</td>
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<td>Nanonets – New Materials and Devices for Energy Harvesting and Storage</td>
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<td>Wang Junling - Assistant Chair (Research)</td>
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<td>Oxide semiconductors for photovoltaic applications</td>
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<td>Xue Can</td>
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<td>Plasmonic hetero-nanostructures for photocatalysis</td>
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<tr>
<td>Zhang Hua</td>
<td><a href="mailto:hzhang@ntu.edu.sg">hzhang@ntu.edu.sg</a></td>
<td>Controlled synthesis of novel nano-materials including graphene-based nanomaterials, carbon nanotubes, anisotropic metal and semiconductor nanomaterials; Applications of nanomaterials in clean energy, bio- and nano-sensing, cell cultures, etc; Self-assembled monolayers, self-assembly and self-organization of nano- and bio-materials; Fabrication of surface structures from micro- to nano-scale, Scanning probe microscopy and its applications.</td>
</tr>
<tr>
<td>Zhang Qichun</td>
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<td>Organic nanowires for stretchable electronics</td>
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