Fundamental research

**Dorian BOUCHET**  
Langevin Institute  
PSL Univ.  
*Plasmon-mediated energy transfer and super-resolution imaging in the near field of nanostructured materials*  
**PhD thesis director:** Yannick DE WILDE  
**PhD supervisor:** Valentina KRACHMALNICOFF  

**Jérémy RIO**  
IMN Laboratory  
Nantes Univ.  
*Ab initio modeling of Cycloparaphenylenes at atomic scale*  
**PhD thesis director:** Christopher EWELS  

Interdisciplinary research

**Jan-Patrick Dela Cruz CALUPITAN**  
CEMES Laboratory  
Toulouse Univ. and NAIST (Japan)  
*Highly sensitive terarylenes: Synthesis, switching, and scanning tunneling microscopy studies*  
**PhD thesis director:** Gwénaël RAPENNE and Tsuyoshi KAWAI  

**Jeanne VOLATRON**  
MSC Laboratory  
Paris Diderot Univ.  
*Long term fate of inorganic nanoparticles: biotransformation and biodegradation*  
**PhD thesis director:** Florence GAZEAU  
**PhD supervisor:** Gaëlle CHARRON & Damien ALLOYEAU  

Applied research

**Thomas BOTTEIN**  
IM2NP Laboratory  
Aix Marseille Univ.  
*Synergetic combination of top-down and bottom-up lithography processes for large scale nanostructures applied to photonics*  
**PhD thesis director:** David GROSSO  
**PhD supervisor:** Luc FAVRE  

**Sarah DELSHALDI**  
IAB G2ELab Laboratory  
Grenoble Alpes Univ.  
*Immunoassays exploiting superparamagnetic nanoparticles and structured micro-magnets*  
**PhD thesis director:** Patrice MARCHE & Orphée CUGAT