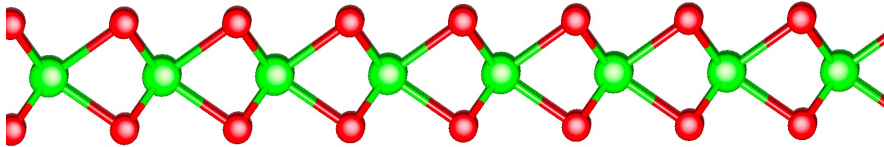


## Luminescence imaging of atomic hetero-bilayers



The **project target** is the construction of a set-up for micro-luminescence imaging of atomic hetero-bilayer. Two semiconductor materials, like monolayer  $\text{WSe}_2$  and  $\text{MoS}_2$ , with different bandgaps will be combined to form a bilayer. This allows tuning charge transfer between the layers and forming new quasiparticle states (excitons).

### The student will learn how to :

- Fabricate atomically thin structures by exfoliation
- Construct and align a microscope imaging system for atomically thin materials
- Investigated the fabricated structures in micro photo-luminescence (PL) imaging.
- to do scientific research in an international team

PL imaging

