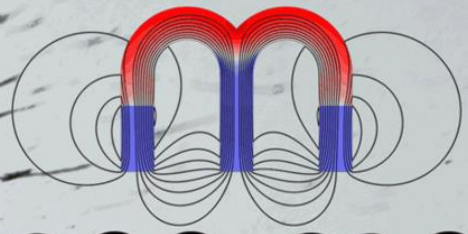


**Facility for Materials  
Engineering in  
Magnetic Fields**



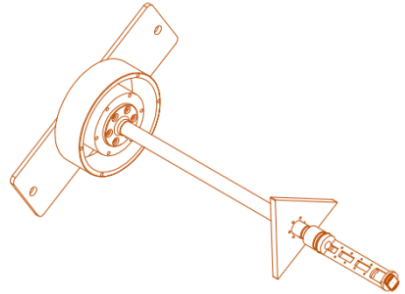
mag mat

[www.magmat.uk](http://www.magmat.uk)

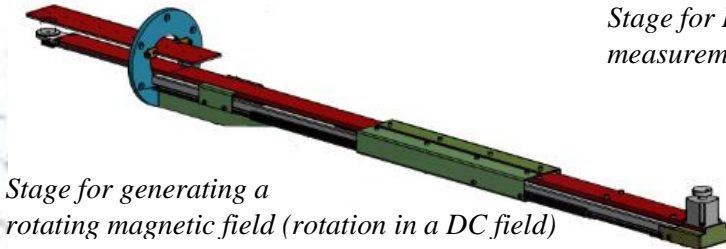
We aim to set up a unique UK capability that extends materials engineering in a strong magnetic field (15 Tesla) to new synthesis and processing techniques that are being investigated and developed in the UK.

We have developed a fully functional stage for achieving rotating magnetic field. The operation is computer-controlled and it produces materials having crystallographic alignment along any direction.

We have purchase a custom built Hall coefficient measurement system. The field strength is up to 15 T and the upper temperature 700°C. This unit will support the research activities on thermoelectrics.



*Stage for Hall coefficient measurement for semiconductors*



*Stage for generating a rotating magnetic field (rotation in a DC field)*