

**Facility for Materials  
Engineering in  
Magnetic Fields**



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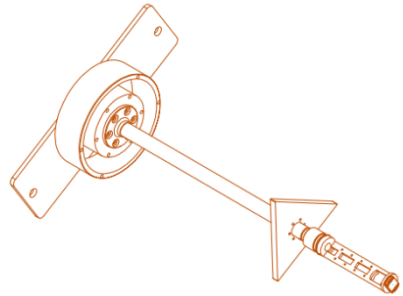
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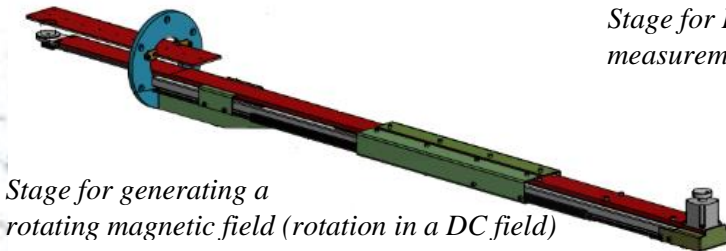
We aim to set up a unique UK capability that extends materials engineering in a strong magnetic field (15 Tesla) to new synthesis and processing techniques that are being investigated and developed in the UK.

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)*

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