European Magnetic Field Laboratory (EMFL)

Access to high magnetic field magnets

Call for proposals

Guidelines

Call for proposals

A call for proposals is launched inviting proposals for research requiring access to the large installations for high magnetic fields managed in Europe by EMFL:

- **HLD**, the Hochfeld-Magnetlabor Dresden, Helmholtz-Zentrum Dresden-Rossendorf in Dresden, Germany (http://www.hzdr.de/HLD)
- **LNCMI-Grenoble**, the Laboratoire National des Champs Magnétiques Intenses Grenoble, France (http://www.lncmi.cnrs.fr)
- **HFML**, the High Field Magnet Laboratory in Nijmegen, the Netherlands (www.ru.nl/hfml)
- **LNCMI-Toulouse**, the Laboratoire National des Champs Magnétiques Intenses in Toulouse, France (http://www.lncmi.cnrs.fr)

Applications for access to one of the infrastructures

Access to one or more of the infrastructures will be given for research in high magnetic fields, provided that a research proposal for access will be positively rated by a Selection Committee based on the following selection criteria:

i) scientific quality and originality of the proposal;
ii) necessity for the use of the infrastructure;
iii) track record and past performance of the user group.

The actual realization of the proposal will also depend on the availability of magnet time as well as on the feasibility and ranking of the proposed research. Access involves the use of the installation, the use of all available auxiliary equipment, and support by the local staff.

Applications for access can be submitted using an on-line form on
http://www.emfl.eu/

It is strongly recommended to contact the infrastructure first, to fine-tune the proposal, to investigate the feasibility of the work, and, when possible, identify your local contact.

Contact details

- HFML

Contact local staff
http://www.ru.nl/hfml/people/staff/
In case you do not know whom to contact, please contact N.E. Hussey.

- HLD

Contact local staff
http://www.hzdr.de/HLD
In case you do not know whom to contact, please contact J. Wosnitza.

- LNCMI-Toulouse

Contact local staff
http://www.toulouse.lncmi.cnrs.fr/spip.php?rubrique6&lang=fr
In case you do not know whom to contact, please contact G. Rikken

- LNCMI-Grenoble

Contact local staff
http://lncmi-g.grenoble.cnrs.fr/spip.php?rubrique6&lang=frIn case you do not know whom to contact, please contact G. Rikken

The proposal should address the following points:

1. *A clear summary of the objectives of the proposed research in not more than 250 words.*
2. *Scientific justification (maximum one page): description of the proposed experiment, the scientific importance of the proposed research and relation to existing literature (incl. key references), and justification for using the high magnetic fields of the facilities, (which specific effects are expected at the high magnetic fields with, when possible, reference to or description of earlier lower field measurements and preliminary tests). The amount of magnet hours or number of pulses requested needs to be specified and estimated.*
3. *Proposed experimental technique and description of support needed: what expertize, specialized equipment, temperature range, frequency range, etc. is needed.*
4. *Clarification, if necessary, of potential hazards or special handling requirements related to the samples to be studied.*
5. *Track record and past performance of the user group.*

Categories

The following areas of research are distinguished. It is important for the correct evaluation of your proposal that you choose the right category; in case of doubt please ask a local contact.

- Magnetism (MA)
- Metals and Superconductors (MS)
- Semiconductors (SC)
- Soft Matter and magnetoscience (SO)
- Applied Superconductors (AS)

Continuation and resubmission:

In case the proposal concerns the extension of a project accepted in the previous year, which has not yet reached its original targets or there is a need for additional magnet time, the achievements so far and an updated work plan is requested. The Selection Committee will base its decision on that work plan and the original proposal. The continuation proposal should be not more than 250 words. Please choose the appropriate on-line form.
In case of resubmission of a proposal, which was accepted in the previous year and which for whatever reason could not be scheduled or realized, the Selection Committee will base its decision on the original proposal and a statement explaining the reasons of the delay. Please choose the appropriate on-line form.
The application form is on http://www.emfl.eu/

Evaluation and realization:

Applications will be evaluated and ranked. The projects are anticipated to be realized in the following 12 months. The responsible applicant will be informed as soon as possible on the outcome of the evaluation process. A local contact of the infrastructure involved will be assigned to the project and scheduling of the proposed experiment will be done through this local contact.
The administration of the respective infrastructure (HLD, LNCMI-G, HFML, LNCMI-T) will help with local arrangements (accommodation, visa, travel, etc.).

Report and acknowledgements:

To justify the use of the valuable and expensive high magnetic field facilities, and to demonstrate the scientific output, short reports describing the outcome are requested within three months after completion of the experiments. The achievements should be clearly described in not more than 250 words and the report should be submitted to the infrastructure which provided the magnet time.
Publications which, exceptionally, do not have a coauthor from the infrastructure are expected to be under double affiliation.

In all resulting publications please acknowledge any support under this scheme with:
"**We acknowledge the support of the HFML-RU/FOM (or HLD-HZDR or LNCMI-CNRS), member of the European Magnetic Field Laboratory (EMFL).**"