

GATE

General Access Tool for HZB User Facilities

User's Handbook

Proposal submission

Helmholtz Zentrum Berlin

Abt. FM-D, NP-ACO

1 Preface

This handbook is for persons who are intending to use GATE, the general access tool to the experimental infrastructures of the Helmholtz-Zentrum Berlin (HZB).

Users must be registered in GATE in order to be able to

- submit beamtime applications for BER II or BESSY II
- participate in a HZB experiment as experimentalist
- give user feedback
- submit experimental reports
- submit publications related to HZB experiments

Please read this handbook carefully before using the system.

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2 Submitting a new proposal

An application for beamtime – or proposal – consists of three major parts:

- the general part
- the technical part
- previous results (reports and publications)

The general part contains all the information on who is involved with the proposal as main proposer and co-proposer. It also includes the so called scientific case.

The technical part deals with the actual experiment(s). It consists of the technical requirements for the instrument/beamline that is applied for, a detailed experimental plan and a description of the samples to be measured at the respective instrument/beamline. More than one sample/class of samples might be added to one experiment description. For each instrument/beamline that is requested for the proposal a separate technical requirement and sample description is necessary.

At the end of the proposal submission, you are asked to add experimental reports on previous experiments at HZB and publications based on experiments using HZB facilities (if applicable).

For starting the proposal submission, please use “Submit a new proposal” in the Submission section.

Submission section

- ▶ Submit a new proposal
- ▶ Submit publications

2.1 General part

The general part consists of two web forms and one upload. Fields marked with * are prerequisite.

GATE - Astrid Brandt

New proposal

General proposal data

Title *

Abstract *

Proposal type * Standard Scientific College *
[Overview of the Scientific Colleges](#)

Main research area * Scientific Category *

Funding Funding requested [Information about funding](#)

Scientific case [?](#) [example](#)

PDF file (1 page)

2.1.1 General proposal data

Please

- Give the title of the proposal
- Provide a short abstract, describing the aim of the proposal
- Choose the proposal type.
Default proposal type is Standard. Members from cooperation research groups please choose CRG.
- Choose the scientific college that seems the best for your proposal
- State the main research area of your proposal
- Refine the research that is covered by your proposal by choosing a scientific category
- Apply for funding
Please note: not all groups are eligible for funding. Please check out **the Information about funding** in advance.

2.1.2 Scientific case

The scientific case must be written in English and be no longer than one page of A4 paper. The length and file format will be checked at the upload. Only pdf file of one page length are accepted.

In the scientific case the following topics should be addressed:

- **Scientific context**
You should give a clear account of the aims of the experiment and set it within the broader scientific context. Keep in mind that not all review panel members are experts in the field.
- **Publications**
List the 5 most important publications in this field of science in order to show that you are aware of the work of others.
- **Choice of specific instrument/station**
Give reasons for your choice of instrument. Justify why you need to use this particular instrument and why HZB is important.
- **Preliminary work**
If possible, give results of preliminary work carried out, (for example, NMR or light scattering experiments) in support of your proposed experiment and to demonstrate sample quality.

It is possible to continue without the upload of the scientific case.

2.1.3 Co-proposer

Proposal: 14100212-ST

[General proposal data*](#) > [Co-proposer](#) > [Technical requirements*](#) > [Prev. results](#) > [Submit](#)

Co-proposer

Add co-proposer

Each co-proposer must be registered at HZB GATE.

Choose a facility/method for your proposal:

- Neutrons - Requirements for experiments at BER II
- Photons - Requirements for experiments at BESSY II
- MX - Requirements for macromolecular crystallography at BESSY II

To add a co-proposer, use the search co-proposer button. This will open the search window:

Search co-proposer for Proposal: 14100212-ST

Enter at least 3 characters of the users family name.
Please note: Co-proposers must be registered in GATE.
If you do not find the desired person in GATE, please ask her to register.

Add co-proposer

Click on a name to add the person as co-proposer.

User	Affiliation
Astrid Brandt	Helmholtz-Zentrum Berlin für Materialien und Energie

[Close window](#)

You may add several co-proposers.

2.1.4 Choose a facility/method for your proposal

The last step in the general part of the proposal is the choice of the facility/method. For each chosen facility/method a separate technical part is generated. A proposal may contain more than one technical part.

After finishing one technical part, you will have the opportunity to go back to this point in order to add another one.


2.2 Technical part

The technical part is slightly different for each of the three facility options and depends on the instrument/beamline that is requested. In general you will have to

- Choose the instrument/beamline to be used
- Upload a detailed experimental plan for all measurements intended to be carried out at the respective instrument/beamline
- Explain the necessity of using neutrons/photons
- Specify the experimental conditions
- Specify the sample environment needed
- Specify the HZB User Labs needed
- Describe the sample that is intended to be measured. If more than one sample (class

of samples) should be measured at the same instrument, add another sample description after finishing the first one.






At the end, after finishing the description of the sample, you will have the option to add another sample (class of samples) that should be measured at the same instrument.

Choose  [add sample](#) to start another sample description.

Proposal: 14100212-ST

[General proposal data*](#) > [Co-proposer](#) > [Technical requirements*](#) > [Prev. results](#) > [Submit](#)

Technical requirements

Facility	Equipment	Samples	
1.1-N  *	E2	dfvb  	
		 add sample	

Add technical requirement

- Neutrons - Requirements for experiments at BER II
- Photons - Requirements for experiments at BESSY II
- MX - Requirements for macromolecular crystallography at BESSY II

In case that you intend to use more than one instrument/beamline for your proposal, please add another technical requirement by choosing the next installation. This will start a new technical part which needs again an experimental plan to be uploaded. The sample description must also be completed for every technical part.

2.3 Previous results from HZB experiments

The webform provides the opportunity to link experimental reports and/or publications based on results from previous HZB experiments to the proposal. Reports from older experiments are still available via the old systems BOAT and BADGE.

Proposal: 14100212

[General proposal data*](#) > [Co-proposer](#) > [Technical requirements*](#) > [Prev. results](#) > [Submit](#)

Previous results from HZB experiments

If available, please add experimental reports and/or publications based on results of HZB experiments. Reports should not be older than 2 years, publications should not be older than 3 years.

Reports from previous proposal systems	
To add reports from previous proposal systems, please choose the facility, paste the proposal number and press "add old reports".	
1. BER II ▾	Proposal no. <input type="text"/>
2. BER II ▾	Proposal no. <input type="text"/>
3. BER II ▾	Proposal no. <input type="text"/>
4. BER II ▾	Proposal no. <input type="text"/>
5. BER II ▾	Proposal no. <input type="text"/>
<input type="button" value="add old reports"/>	

In addition, the proposal should list publications that are based on previous HZB experiments by your group (not older than 3 years). In order to be available in Gate for the proposal, the publications have to be submitted to GATE (see chapter 3: Submitting publications). To submit a publication, use [Enter new publications](#).

After the submission, you can choose them from your publication list.

Publications

Publications available in GATE as previous result	
<input type="checkbox"/>	Pabst, G; Lonez, C; Vandenbranden, M; Justin, J; Radulescu, A; Ruyschaert, JM; Gutberlet, T: Stalk-free membrane fusion of cationic lipids via an interdigitated phase , <i>Soft Matter</i> 8 (2012), p. 7243-7249 doi:10.1039/c2sm25665g
<input type="checkbox"/>	Lelong, Gerald; Heyd, Rodolphe; Charalambopoulou, Georgia; Steriotis, Theodore; Brandt, Astrid; Beck, Kevin; Vayer, Marylene; Price, David L; Brady, John W; Saboungi, Marie-Louise: Role of Glucose in Enhancing Stability of Aqueous Silica Gels Against Dehydration , <i>Journal of Physical Chemistry C</i> 116 (2012), p. 9481-9486 doi:10.1021/jp208377t
<input type="checkbox"/>	Baulain, U; Schoen, A; Brandt, H; Brade, W: Performance of sheep breeds in Lower Saxony based on results of stationary progeny test from 1993 and 2007 , <i>ZUCHTUNGSKUNDE</i> 83 (2011), p. 439-450
<input type="button" value="add marked publications"/>	

[Enter new publications](#)

3 Submitting publications

GATE is providing the possibility to search for publications in ISI Web of Knowledge.

Publication list

Please submit only publications that are based on experiments at one of the HZB facilities (BER II, BESSY II). You will be asked later on to specify both the facility and instrument/beamline/station that were used.

Please use the search option in the ISI Web of Knowledge. If your publication is not found in the ISI Web of Knowledge, you may [enter the publication data here](#).

Search in your publication list

Year

Search ISI Web of Knowledge

Author

Institute

Title

Year

Search results from ISI Web of Knowledge

Mark the publications you want to add to your GATE publication list.

Brandt, Gunnar; Merico, Agostino; Völler, Bjoern; Schlueter, Achim: Human Adaptive Behavior in Common Pool Resource Systems. PLOS ONE 7 (2012) , ARTN e52763
doi: 10.1371/journal.pone.0052763


Hammond, Edward; Brandt, Ralf; Dredge, Keith: PG545, a Heparan Sulfate Mimetic, Reduces Heparanase Expression In Vivo, Blocks Spontaneous Metastases and Enhances Overall Survival in the 4T1 Breast Carcinoma Model. PLOS ONE 7 (2012) , ARTN e52175
doi: 10.1371/journal.pone.0052175

Fujisaki, Ikuko; Mazzotti, Frank J.; Hart, Kristen M.; Rice, Kenneth G.; Ogurcak, Danielle; Rochford, Michael; Jeffery, Brian M.; Brandt, Laura A.; Cherkiss, Michael S.: Use of alligator hole abundance and occupancy rate as indicators for restoration of a human-altered wetland. ECOLOGICAL INDICATORS 23 (2012) , 627-633
doi: 10.1016/j.ecolind.2012.05.011

You may mark the appropriate publications and add them to your GATE publication list.

After adding the publication to GATE, you are asked to assign the publication to the HZB experimental facility that was used. Please do so in order to allow HZB to fulfill its reporting duties.

Your publications in GATE	HZB facility	
2012		
Lelong, Gerald; Heyd, Rodolphe; Charalambopoulou, Georgia; Steriotis, Theodore; Brandt, Astrid; Beck, Kevin; Vayer, Marylene; Price, David L.; Brady, John W.; Saboungi, Marie-Louise: Role of Glucose in Enhancing Stability of Aqueous Silica Gels Against Dehydration , Journal of Physical Chemistry C 116 (2012), p. 9481-9486 doi:10.1021/jp208377t	BER II: V4	edit
Pabst, G; Lonez, C; Vandenbranden, M; Jestin, J; Radulescu, A; Ruyschaert, JM; Gutberlet, T: Stalk-free membrane fusion of cationic lipids via an interdigitated phase , Soft Matter 8 (2012), p. 7243-7249 doi:10.1039/c2sm25665g	BER II: V4 BESSY II: 7T-MPVV-MAGS/SAXS BESSY II Station: SAXS/ASAXS	edit
2011		
Baulain, U; Schoen, A; Brandt, H; Brade, W: Performance of sheep breeds in Lower Saxony based on results of stationary progeny test from 1993 and 2007 , ZUCHTUNGSKUNDE 83 (2011), p. 439-450	BER II: E1 BESSY II: BAMline BESSY II Station: CISSY	edit

By choosing  you will be able to assign the HZB facility, instrument/beamline and station that has been used in the experiment.

Edit publication

Publication	
Type of publication	Scientific publication
Title of the publication *	Role of Glucose in Enhancing Stability of Aqueous Silica Gels Against Dehydration
Author(s) * (Name, X.; Name, Y.; Name, Z.)	Lelong, Gerald; Heyd, Rodolphe; Charalambopoulou, Georgia; Steriotis, Theodoros
Year *	2012

Scientific publication	
Journal *	Journal of Physical Chemistry C other <input type="text"/>
Volume	116
Pages	9481-9486
doi	10.1021/jp208377t

Utilized HZB equipment *	
for multiple choices hold CTRL-button	
<input checked="" type="checkbox"/> BER II Instruments	<input type="text" value="V6"/> <input type="text" value="V14"/> <input type="text" value="V18"/> <input checked="" type="text" value="SANS"/> <input type="text" value="V4"/>
<input type="checkbox"/> BESSY II Beamlines	<input type="text" value="Search a beamline for me"/> <input type="text" value="7T-MPVV-EDDI"/> <input type="text" value="7T-MPVV-MAGS/SAXS"/> <input type="text" value="BAMline"/> <input type="text" value="CP-NIM"/>
Exp. Stations	<input type="text" value="ALICE"/> <input type="text" value="BAMline station"/> <input type="text" value="CISSY"/> <input type="text" value="DEX-01"/> <input type="text" value="DEX-02"/>