

## Project proposal for JUNIQ access

**Period**

*Give the time period you apply for (month year - month year)*

**Project title**

*Title as given in the online proposal*

**System(s)**

*Please name the system(s) for which you are applying*

**Project ID or project acronym**

*Project ID or project acronym as given in the online proposal*

**Principal investigator**

*Name, affiliation, contact data*

**Project contributor(s)**

*Name, affiliation, contact data*

**The length of the project description is restricted to 5-10 pages (font 11 pt)!**

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# 1 Introduction

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*Give a short outline of the scientific background of your research, including references.*

*(about 0.5 page)*

# 2 Preliminary work

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*Provide a brief summary of your preliminary work in connection with the proposed project, including references.*

*(about 1 page)*

# 3 Description of the project

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## 3.1 Project details

*Describe your research project in detail, structured in sub-projects, if applicable. Include discussion of the scientific questions that you are planning to address and the overall scientific goals of the project. It is important that you describe the innovative aspects, impact and topicality of the proposal.*

- *Scientific questions you want to address*
- *Scientific objectives*
- *Computational objectives*
- *Approach and expected outcome*
- *Expected impact on the research area*
- *Scientific and technical innovation potential, impact and topicality*
- *Progress beyond the state-of-the-art*

### 3.1.1 Sub-project 1

### 3.1.2 Sub-project 2

...

*(1 page per sub-project)*

## 3.2 Review processes

*Has the underlying research project already successfully undergone a scientific review process? Is the project funded by public money? If yes, please also provide information about the funding source (e.g., State, BMWi, BMBF, DFG, EU, ...) and the funding time frame. If possible, please provide the corresponding review report and upload it as supplemental material.*

## 4 Algorithms

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Describe each of the algorithms/models that you are planning to use, improve, or develop.

**Important:** please consider the corresponding technical guidelines and requirements of the computing resource(s) you are applying for!

(1 page)

## 5 Justification of requested resources

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Outline the amount of resources you request for the granting period, structured in sub-projects, if applicable.

- Type of run (e.g., algorithm type, etc.)
- Problem size for planned runs (e.g., # particles or the like)
- Number of runs planned
- Wall-clock time per run
- Total amount of requested computing time in hours

Table 1: The following resources are requested on the D-Wave Advantage™ System JUPSI

Sub-project	Type of run	Problem size	# runs	Wall time/ run [hours]	Total [hours]
Sub-proj. 1	Type 1	P1	R1	W1	R1·W1
	Type 2	P2	R2	W2	R2·W2
...				...	
TOTAL					sum of above

(0.5 page)

## 6 Resource management and work schedule

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## 6.1 Resource management

*Describe how you intend to manage the resources you have requested. This should include a description of the methods you will deploy to monitor progress of the project and how project results are documented.*

*(0.5 to 1 page)*

## 6.2 Work schedule

*Provide tables and Gantt charts for a clear presentation of the work schedule, structured in sub-projects, if applicable. For unexperienced users, it is suggested to increase the requested computing time per month gradually towards the end of the project.*

### 6.2.1 Sub-project 1

...

### 6.2.2 Sub-project 2

...

*Example for a Gantt chart:*



Figure 1: Work schedule for the project.

## 7 Key personnel and experiences

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*Give a short introduction of the key persons involved in the project and their experience (max. 3 persons).*

*(half a page)*

## 8 Bibliographic references

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*Provide recent/most important bibliographic references that are relevant to the project.*