**PhD project description. Department of physics, NTNU.**

**The department of physics recommend the applicant to enclose a temporary and short (1-2 pages) project description to the application for admission to PhD programme. This for faster processing of the application.**

**A detailed project description (5-7 pages) must be submitted to the Department of physics within three months after admission to the PhD program.**

NTNUs demands on the project description are (Norwegian texts are actual regulations, English texts are translations and not legally binding):

**Norsk (Bokmål)**

” Fullstendig prosjektbeskrivelse skal foreligge senest innen tre (3) måneder etter opptak, og gjøre rede for tema, problemstillinger, teori og metode samt vurdere risiko ved prosjektet.” (§5-2 i ph.d.-forskriften ved NTNU).

NV-fakultetet har følgende utfyllende spesifiseringer:

1. Redegjørelse av forskningstema, der prosjektet relateres til internasjonal forskning på fagfeltet, og med henvisning til relevant litteratur.
2. Presisering av problemstilling. Hva er målet for studiene som skal gjøres og hvilke metoder skal anvendes?
3. Tidsplan for prosjektet

**English**

” The complete project description is to be available no later than three (3) months after admission and is to provide details of the research topic, the research questions addressed, theory and method as well as an assessment of the risk associated with the project.”

The NV faculty has made further specifications:

1. A description of the research topic, where the project is related to international research within the field and with references to relevant literature.
2. A description of the scientific approach. What is the aim of the study and which methods will be used?
3. Time plan for the project.

To make sure all relevant information is included in the project description and the project plan, the Council for the PhD program in Physics and PhD program in Biophysics has made a template. We would also like to emphasize that:

* The project description should be written so students with a master in respectively physics or biophysics understand the project.
* It is the PhD student that should write the project description and with advice from the supervisor.
* A detailed project plan and the timeline are important as this will be used for your midterm evaluation.

**Template- fill in the fields below**

**Title**

**PhD Student**

**Main Supervisor**

**Co-supervisor**

**Time period for the project**

**Abstract**

**Popular abstract**

**Introduction and motivation**

Describe the overall aim, novelty and motivation for the research project.

**Background – state of the art**

Describe the current status of the research field citing relevant scientific publications. Emphasize on the background for the problems to be addressed in the thesis.

**Aim of project**

State the overall aim and specific aims of the project

**Scientific approach**

Describe the problems the project address, and how the project advances the research field.

**Methods to be used**

Describe the research methods to be used in the project.

**Potential risks and/or concerns**

*Project failure risk*

Describe possible *risks related to the project* and *risks related to the methods* to be used.

*Plan B*

Describe alternatives if the project fails or not goes as planned

*HSE* (Health-Safety-Environment) issues. Describe how HSE is taken care of

*Ethical issues.* Describe ethical concerns

**References**

Make a list of references used in the project description

**Project plan/timeline**

The project plan will be reviewed and revised at the midterm review.

The project plan should include a timeline good to do this per semester and:

* Describing scientific milestones, including submission of papers
* PhD or master courses
* Longer stays abroad if planned
* Teaching duties
* Conference attendance
* Publications
* Popular outreach or dissemination

**Budget**

Estimated yearly spending on computers, travel, experimental running costs and cost for use of instrumentation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 | Year 4 |
| Computers/supercomputers |  |  |  |  |
| Travels |  |  |  |  |
| Use of instrumentation |  |  |  |  |
| Running costs |  |  |  |  |
| Defense |  |  |  | 15.000 |
| Others |  |  |  |  |
| Total costs |  |  |  |  |

**The project description has to be signed by the PhD student and the main supervisor**

Date and place Date and place

Candidate Main supervisor