

PhD / Postdoctoral Research Project

A focused plan for an independent research program

Applicant Name · Host Institution · Supervisor / Mentor

Research Vision

Introduce the overarching question and why it is timely, tractable, and suitable for the fellowship or degree period.

State of the Art and Knowledge Gap

Summarize the relevant literature, identify the specific gap, and state the hypothesis or research question.

Research Aims

Aim 1. Establish the baseline measurement or sample.

Aim 2. Test the central mechanism using independent constraints.

Aim 3. Integrate results into a physical or predictive framework.

Methods

Describe datasets, experiments/observations, analysis framework, validation, reproducibility, and contingency plans.

Training and Career Development

List technical skills, leadership activities, mentoring, teaching, proposal writing, and collaboration goals.

Schedule

Year / Phase	Main activities
1	Setup, data acquisition, first analysis
2	Main science, conference presentation, manuscript
3	Integration, final publications, next-stage proposal

Expected Outputs

Peer-reviewed papers, reusable code/data products, conference dissemination, and a clearly defined next research step.