

Sample SOP for Germany: Master's Admission

Applicant profile: Rohit Verma, B.Tech Electrical Engineering, applying for an M.Sc. in Power Engineering

Sample motivation letter of about 700 words written for a university application (abridged)

Subject: Motivation letter for the M.Sc. Power Engineering programme, winter intake

I am applying to the M.Sc. Power Engineering programme because my undergraduate work left me with a specific unfinished question: how transmission networks stay stable as renewable generation displaces synchronous capacity. My final-year thesis modelled frequency response in a distribution feeder with high solar penetration, and the simulation held only under assumptions that will not survive the next decade of the Indian grid.

My preparation is technical and measurable. I completed my B.Tech in Electrical Engineering with a first class, with my strongest results in Power Systems, Control Engineering and Power Electronics. The thesis used MATLAB and Simulink for the dynamic model and required me to teach myself state-space representation beyond the syllabus. I presented the work at our departmental symposium and it was recommended for the institute technical journal.

Two professional experiences reinforced the direction. During a six-month internship at a state transmission utility, I worked on substation load data and saw how far real operating practice sits from textbook assumptions. Afterwards I spent a year as a graduate engineer with a solar EPC contractor, sizing inverters and preparing grid connection documentation for three commercial installations.

Your programme matches these gaps precisely. The module on power system dynamics and stability covers the analytical foundation my thesis lacked. The high voltage laboratory offers equipment access I have only read about. I am particularly interested in the chair working on grid integration of renewable sources, whose recent publications on inertia emulation address the exact problem my thesis could not resolve.

Germany is the deliberate choice rather than the convenient one. The German grid has already absorbed the renewable share that India is now planning for, and the engineering practice developed here is directly transferable. The proximity between universities, transmission operators and manufacturers creates a learning environment that no purely academic setting reproduces.

After graduating I intend to work in grid integration engineering, initially in Europe to consolidate practice and later in India, where the same transition is beginning at greater scale. I have begun A1 German coursework and intend to reach B1 during the programme, since technical work here rewards the language even where teaching is in English.

I believe my thesis work, laboratory habits and industrial exposure prepare me for this programme, and I would welcome the opportunity to continue this work at your university.

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