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February 2024

Universitätsklinikum Leipzig AöR

Leipzig.

Dear Hiring Manager,

# **Subject: Medizinisch-technischer Assistent**

With a strong academic background in Molecular Life Sciences and hands-on experience in molecular biology techniques, I believe I am well-suited for the challenges and opportunities presented by your organization.

During my master's thesis, I focused on the SRS\_13901 effector protein of the biotrophic smut fungus *Sporisorium reilianum f.sp. reilianum*, exploring its role in pathogenicity through genetic manipulation, molecular biology techniques, and advanced microscopy. As I created complementation strains with the coding sequence, integrating distinct tag versions. The other objective involved employing yeast two-hybrid technique to elucidate the interaction partners of the SRS\_13901 protein. This research has improved my skills in molecular biology techniques, including DNA, RNA, and protein extractions, plasmid isolation, cloning techniques (Gibson assembly, Restriction enzyme-based, PCR cloning), SDS-PAGE, PCR (RT-qPCR, qPCR), agarose gel electrophoresis, Vector preparation, Southern and Western Blots, Transformation, enzyme-based assays, yeast two-hybrid system, and sequencing data analysis.

My bachelor’s degree in Zoology Honors from Delhi University equipped me with a diverse set of skills in genetics, immunology, cell and developmental biology, proteins and enzymes, physiology, molecular biology, and biochemistry. I believe I am an ideal candidate for the laboratory assistant position, eager to contribute my knowledge and skills to various research projects.

Besides my academic and research achievements, I bring strong communication and collaboration skills, project management abilities, and a keen eye for organization. My proficiency in laboratory safety protocols, data analysis, documentation, and reporting demonstrates my commitment to quality research. I am fluent in English and have a basic knowledge of German.

Enclosed is my resume, which provides further details about my academic and professional background. I am excited about the opportunity to contribute my skills and knowledge to your organization and am confident in my ability to make meaningful contributions to your team.

Thank you for considering my application. I look forward to the opportunity to discuss how my experiences align with the needs of your organization.

Sincerely,

Bhawna.