Vijay Mosali Bauge straße 2b 65451, Kelsterbach +4917656772994 vijayreddymosali@gmail.com

Basell Polyolefine GmbH Human Resources - Silke Straub Industriepark Höchst, Building D 349/65926 Frankfurt am Main

March 4, 2020

Application for the position of "Ingenieur (m/w/d) R&D-Kunststofftechnikum"

Dear Mrs. Straub.

With great interest I became aware of this advertised position in the Stepstone job market. My motivation for this position is excellent opportunities for all my knowledge and experience, and my passion and intellectual curiosity to work in the field of plastics.

Currently I am working as a 3D Printing Engineer at Clariant. My most important tasks includes filament extrusion and compounding processes for 3D printing applications. I lead the analysis and optimization of both of these processes and also provide solutions for customers. Apart from this I also have a previous experience of developing polyolefin 3D printing filaments at an Austrian research company Profactor GmbH. I also bring the knowledge of Injection molding and plastic testing methods if required.

I can bring different strengths to this position. I approach my tasks very reliably, responsibly and precisely. With me, your company gains an employee who is flexible, motivated and team-oriented. In addition, I was able to demonstrate strong communication skills, a high willingness to learn and a lot of creativity in previous projects.

Attached CV provides a good summary of my background and experience. Kindly let me know if you require any further information regarding my candidacy. I would be grateful to discuss my qualifications in a personal interview. I am available to start as soon as possible and I am expecting a salary of around 60,000 € per year. Thank you very much for your time and endeavour. I look forward to your invitation.

Yours sincerely,

Vijay Mosali

Curriculum vitae

Personal Data

Name: Vijayasekhara Reddy Mosali Address: Bauge straße 2b, 65451,

Kelsterbach, Germany

E-mail: vijayreddymosali@gmail.com

Phone: +4917656772994 **Date of Birth:** 10.05.1993

Nationality: Indian

LinkedIn: www.linkedin.com/in/vijayasekhara-reddy-mosali



Work Experience

Nov 2018 - Present

Company: Clariant Produkte (Deutschland) GmbH, Frankfurt am

Main

Position: 3D Printing Engineer

3D printer filament production

 Led the analysis and optimization of complete process from drying to winding

- Modeling, design, and testing of new die heads to improve diameter stability and production output rates using single and twin-screw extruders
- Production of customer samples

Powder bed fusion compound production

- Cooperated with the powder development team to produce flame retardant polyamides
- R&D production of powders using direct extrusion emulsification techniques with polymer-PEG blends

Sourcing of production equipment

 Analysis, evaluation, and design of extrusion and filament production equipment including dryers, feeders, and winders

Dec 2016 - Mar 2018

Company: PROFACTOR GmbH, Steyr, Austria

Position: Research Engineer

- Development and extrusion of polypropylene and polyethylene 3D printer filaments
- Rapid prototyping of micro-needles, microfluidics and implants with stereo-lithography 3D printing

May 2017 - Jan 2018 Company: PROFACTOR GmbH, Steyr, Austria

Position: Master thesis

Title: Mastering, Polycopy, Ni-shim fabrication and injection molding of micro-needles for drug delivery and ECG sensor applications

Sep 2015 – Nov 2016 Institutes: Aalen University, Aalen, Germany

Position: Work student

Project: Determination of thermal and mechanical properties of extruded multi-layer films using DSC, DMA, TGA, tensile, and impact

testing methods

Academic Projects

Apr 2015 – Aug 2016 Institute: Aalen University, Aalen, Germany

- Analysis and optimization of extrusion and injection molding process parameters
- Optimization of extrusion blow molding process parameters using Design of Experiment (DOE) methodology
- Investigated the adhesion behavior of 3D printed parts on different substrates including glass, polypropylene, and polyethylene
- Injection molding process simulation by CAE mold flow software
- Evaluated the influence of nucleating agent addition on mechanical properties for Injection molded samples

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Mar 2015 – Feb 2018 Master of Science in Polymer Technology

Institute: Aalen University, Aalen, Germany

Focus: Polymer materials and testing, Injection molding, Mold design, Extrusion, Blow molding, Melt rheology, CAE-mold flow simulation, Polymers in applications, Product quality, Design of experiments

(DOE)

Aug 2010 – Jun 2014 Bachelor of Technology in Mechanical Engineering

Institute: JNT University, Ananthapuramu, India

Focus: Machine design, Machine kinematics, CAD/CAM, Finite element methods (FEM), Thermodynamics, Manufacturing technology, Automobile engineering, Mechanics of solids, Metallurgy & Material Science, Production technology, Robotics, Industrial management,

Quality control

Knowledge and skills

Software Skills • CAD software: Solid works, Auto desk Inventor

Simulation software: CAE Mold flow

• 3D slicer software: Simplify 3D, Cura, MakerBot Print, PreForm

• Other: MS Office, Origin, Minitab 17

Language Skills • English - Fluent

German - BasicHindi - Basic

• Telugu - Mother tongue

Hobbies and Interests • Team sports, puzzle games, swimming, chess

• Travelling, reading books