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Mansfield CTR, CT 06250
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Mahdad.mahmoudi@uconn.edu

Mahdad Mahmoudi

Expert in field of polymer and resin science, with an engineering background and experienced in working at industrial settings. Able to devise research plans and run experiments to characterize material.

My career goals are to integrate in my workspace, build connections, and increase productivity by finding cost-effective methods to do chemistry. On top of that, I would strive to work towards making sustainable materials that are less harmful to the environment.

August 2022 - Now

Ph.D. in Polymer Chemistry
University of Connecticut

September 2015 – February 2018

M.Sc. in Polymer Engineering
Amir Kabir University of Technology
Tehran, Iran

September 2011 – September 2015

B.Sc. in Polymer Engineering
Amir Kabir University of Technology
Tehran, Iran

- Teamwork
- Motivation
- Creativity
- Problem solving
- Polymer Characterization
- Polymer Synthesis
- Nanomaterials
- Quality Control

2022 - Now

Research Assistant
University of Connecticut

Developing new formulas in polyurethane and acrylic material, such as foams and coatings. Training new lab members in safety and chemical waste handling. Presentation of results in the form of posters and speeches. Leading undergraduate student groups to work in teams and guiding them on analyzing results to enhance experiment methods and find sources of error.

2020 - 2022

Researcher
Amir Kabir University of Technology

Work on writing research reports and journal articles. Conducting experiments for material characterization (FT-IR, DSC, and TGA). Experimentation on material properties (Mechanical testing, Impact resistance, and Melt flow index).

2018 - 2019

Quality Control Engineer
Karya Polymer Co.

Teaming up with production engineers and R&D to design workflow charts and manufacture new products. Introducing decisive and cost-effective methods to check the properties of plastic products such as vacuum bags and shrink packaging. Running experiments on a day-to-day basis and generating customized QC reports for each product.