

Post-doctoral researcher in the field of thermoplastic composites

We are looking for postdoctoral researchers and engineers in the fields of thermoplastic compounding and thermoplastic composites at Sabanci University Integrated Manufacturing Technologies Research and Application Center & Composite Technologies Center of Excellence, Teknopark İstanbul, 34906 Pendik. The candidate will work in industrial projects about the development of new generation thermoplastic composites and production techniques for innovative applications.

General qualifications

- MSc and PhD degree in Polymer Science and Technology, Materials Science and Engineering and Chemistry (priority)
- Good knowledge in synthesis of carbon, boron and other nanomaterials and their surface chemistry, and integration techniques
- Having an extensive experience on thermoplastic polymer formulations (engineering and high-performance polymers), compounding techniques (extrusion, screw design and masterbatch development), nanocomposite productions by melt processing and materials characterization
- Experience with characterizing the structural, mechanical and thermal performance of nanomaterial reinforced composites
- Project management skills
- Fluent speaking and excellent writing skills in English
- Good teamwork skills
- Great communication skills
- Strong Focus on execution and being results oriented.

Job Description:

The candidate will be responsible for

- Synthesis and characterization and surface functionalization of carbon/boron-based nanomaterials
- Working with wet chemistry techniques
- Production of thermoset and thermoplastic nanocomposites through relevant processing techniques such as infusion, extrusion and thermokinetic mixer, and evaluation of their mechanical and thermal performances.
- Characterization by SEM, XRD, Raman Spectroscopy, FTIR, DSC, TGA, UTM, rheometer
- The preparation of scientific reports and the interpretation of results
- Extent and create new networks.

If you are up to the challenge, please send us your CV and Cover Letter.

Contact person: Assoc. Prof. Dr. Burcu Saner Okan/Prof. Dr. Mehmet Yıldız

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