

Post-doctoral researcher in the field of nanomaterial chemistry

We are looking for 3 postdoctoral researchers and engineers in the fields of nanomaterial chemistry 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 thermoset/thermoplastic composites as well as surface coating of engineering fibers with nanomaterials such as graphene for innovative applications.

General qualifications

- MSc and PhD degree in Chemistry (priority) and Materials Science and Engineering
- Extensive experience in organic synthesis is a must, and knowledge in polymer synthesis is a plus
- Be well versed in spectroscopic characterization techniques. Some knowledge in material property characterization such as structural, physical, chemical, mechanical and thermal properties is valuable to the project.
- Having an extensive knowledge in synthesis of graphene, boron nitride and related to 2D materials and their surface chemistry, and dispersion techniques, and characterization techniques
- Experience with integrating nanostructures on the functional surfaces
- Being highly self-motivated and having demonstrated the ability to conduct independent scientific research successfully
- Ability to understand and analyze outcomes of the performed experiments
- Project management skills
- Strong written and verbal communication skills in English
- Good teamwork skills
- Great communication skills
- Strong focus on execution and being result oriented.

Job Description:

The candidate will be responsible for

- Synthesis and characterization and surface functionalization of carbon nanomaterials (especially graphene)
- Working with wet chemistry techniques
- Design, implement, and analyze experiments for the creation and integration of novel nanostructures in functional material systems.
- Characterization by SEM, XRD, Raman Spectroscopy, FTIR, DSC, TGA, XPS
- The interpretation of results and the preparation of scientific reports
- Contribute to and actively participate in the conception and execution of research to address defined problems.
- Organize, analyze, and present data from research at seminars, technical meetings, national and international conferences.
- Publish research results in peer-reviewed scientific or technical journals.
- Collaborate with others in a multidisciplinary team environment.

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

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