OPEN POSITIONS

Graduate Student and Post-Doctoral Researcher Positions
Ozyegin University (Istanbul, Turkey) Research Programs

A joint research program led by Özyeğin University and 5 other leading engineering schools (İstanbul Technical University, Yıldız Technical University, Boğaziçi University, Sabancı University, and İstanbul Şehir University) in collaboration with leading Turkish corporations (Vestel, Borusan Logistic, Çalık Enerji, and FARBA) and government institutions (Tübitak MAM, İSBAK), as well as global corporates and universities (GE, 3M, Georgia Institute of Technology, University of Maryland) is seeking exceptional Graduate Students and Post-Doctoral Researchers that will perform cutting-edge research related to solid-state lighting.

Primary research areas

- Heat transfer, electronics thermal management
- Optical design and modeling
- Solid-state lighting (LED) materials technologies (phosphor, chip, silicone, etc.)
- Mechanical design and reliability
- Control systems and related technologies
- Power electronics, ASIC design

Desired qualities of the exceptional candidates are:

- Experienced with finite element analysing tools (ANSYS, Icepak, CFD)
- Experience with mechanical design and modeling tools (Solidworks, CATIA)
- Experience with optical modeling tools (Lighting / Optics, 3-D, Light Tools, ZEMAX, 3D Software)
- In-depth knowledge of optical design design
- Industrial experience in lighting
- Hands-on experience with contemporary optical computational techniques
- Demonstrated ability to investigate, model and provide critical insight into complex physical phenomena
- Experience in performing experiments and validation of modeling results
- In lens or optics/optical design- performing light level analysis
- LED selection and experience with optical modeling using 3-D software like Pro-E, Solid works, or Solid Edge
- Strong knowledge of LED and lighting products

Additional desired qualifications

- Strong record journal and conference publications
- Hands-on experience in relevant experimentation
- Experience working in teams and creating innovative technology solutions
- Exceptional passion for science and technology
- Energizer and positive attitude
- Exceptional clear-communication skills

Candidates who

- Have a BSc, MSc or PhD degree in Mechanical Engineering, Electrical Engineering, Materials Science, Physics or a related field
- Are proficient in English
- Are self-motivated, hardworking, and team player

Compensation:
Competetive salary and benefits for exceptional candidates.

For more information, please send inquiries to:
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