

OPPORTUNITIES

TO LIVE, WORK, & STUDY AT KAUST

Electronics & Software Engineering

Lead

The Lead, Electronics & Software Engineering, is a highly specialized and technical role at KAUST that oversees all electrical engineering, electronics, embedded systems and mechatronics projects, as well as ensuring stringent safety standards. The position holder will work to keep electrical design and electronic fabrication capabilities at KAUST relevant and technologically state-of-the-art. This is a senior position in a client-centric service organization.

The position holder is expected to train and mentor students, researchers, staff and interested community members in electronic and software techniques and theory. He/She is also expected to support the Human Capital agenda of the 2030 Vision by creating and maintaining a nationally recognized KAUST Mechatronics Institute and apprenticeship program.



Major Responsibilities

- The Lead, Electronics & Software Engineering, is primarily responsible for managing all aspects of the Electronics Fabrication Lab (EFL) and overseeing all embedded systems and mechatronics projects. This includes ensuring the highest levels of safety, efficient workflow management, equipment maintenance, tools and materials procurement and management.
- He/She will be highly effective at collaborating with customers and colleagues in completing large projects involving electronics and software. This includes planning, designing, preparing, managing and completing much of the work him/herself in a timely manner.
- Ensure the members operating under his/her direction maintain mission-relevant and advanced hard and soft skillsets; he/she will understand their career aspirations and will provide them with mission-relevant professional development opportunities. He/She will work to maintain high levels of team camaraderie and effective teamwork.
- Being a senior member of the team, He/She will be a mentor to junior staff, and will work closely with the Foreman and Supervisor in ensuring the PCL facilities remain industrially relevant environments for colleagues and customers to safely perform their fabrication, prototyping and development work.
- He/She will perform other applicable tasks and duties assigned within the realm of the employee's knowledge, skills and abilities in the field of his/her position necessary for completing the team's mission.

- **Service to the community and nation**

The Lead, Electronics & Software Engineering will create and maintain a nationally recognized KAUST Mechatronics Institute and apprenticeship program for Saudi nationals. Successful graduates of the program will have demonstrated an advanced ability to design and complete mechatronic projects, and exhibit excellent customer experience skills.



Person Requirements

- **Competencies:**

- The Lead, Electronics & Software Engineering, is an expert in the design, fabrication and characterization of PCBs and PCBA's, component and system level engineering, and control systems, demonstrating expert use of most tools and equipment necessary for completing this work.
- Must be an effective and positive leader able to effectively manage the performance and development of a team of skilled professionals to achieve the team objectives'.
- Must be able to effectively manage facility and tool maintenance, as well as materials procurement and inventory.

- **Safety and Operations:**

- The Lead, Electronics & Software Engineering, will ensure workplace safety at all times, diligently complying with international industry safety standards, KAUST HSE policies, and other relevant regulations, procedures and guidelines. He/She will report and manage machine issues or non-compliances that compromise work quality and/or safety.

- **Teamwork and client-centricity:**

- The position holder will demonstrate due diligence in creating an atmosphere of effective teamwork and team camaraderie. He/She will work closely with students, researchers, PIs, staff and colleagues using effective communication techniques when planning projects and preparing jobs.



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• Service to the community and nation:

- The Lead, Electronics & Software Engineering will have thorough knowledge and practice in the use of contemporary teaching techniques and will be an effective trainer and mentor to apprentices, students, researchers, staff and interested community members in electrical engineering and fabrication techniques with focus on safety.

• Qualifications:

- Essential qualifications: Bachelor's degree in Electronics Engineering, Mechatronics Engineering or similar field.
- Preferable qualifications: Instructor certification or industry recognized equivalent.

• Experience:

- Essential experience:
 - A minimum of 10 years of experience designing and fabricating electrical components and systems.
 - A minimum of 3 years of experience supervising an electronics facility or equivalent supervisory role.
 - minimum of 3 years of experience in programming using C, C++, LabVIEW, IEC PLC, and Visual C.

- Preferable experience:

- Completing mechanical design and engineering work for machining and/or 3D printing.
- Managing and/or instructing apprentices in an accredited skilled-trade training program.



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للعلوم والتقنية
King Abdullah University of
Science and Technology

Learn more about KAUST:
www.kaust.edu.sa

Learn more about Core Labs:
Corelabs.kaust.edu.sa



About King Abdullah University of Science and Technology

Founded in 2009, King Abdullah University of Science and Technology (KAUST) is a top-ranking graduate research university located on the shores of the Red Sea in Saudi Arabia. The University is dedicated to solving global challenges in the areas of food, water, energy, the environment, health and digital. KAUST employees enjoy exceptional packages, including competitive salaries and relocation allowances, fully furnished on-campus accommodation, and comprehensive health insurance coverage. KAUST also provides international schools (IB program) and a wide variety of recreation facilities.

The Core Labs at KAUST is a shared research facility comprised of 12 laboratories run by over 240 staff. Its mandate is to promote the scientific ambitions of KAUST and Saudi Arabia by stewarding and developing state-of-the-art facilities and technical expertise and delivering research support, training, collaboration and services to KAUST faculty, students, researchers and partners.