Reinforcing Kingdom's Engineering Simulation Capability Through Training and Consulting

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The KAUST Supercomputing Laboratory (KSL) has been serving the engineering community of Saudi Arabia for many years. This paper aims to cover a few selected highlights of KSL's educational, training, and consulting services. This outreach program has two streams: modelling & simulation and deep learning for engineers. Since 2017, KSL has conducted nine training workshops in collaboration with ANSYS. The workshops were attended by researchers and students from KAUST, Saudi universities and industry. In total, 583 people attended the workshops. Based on the feedback from the participants, the training themes evolved with time from basic CFD/CSM (Computational Fluid Dynamics / Computational Structural Mechanics) to multiphase flows, electromagnetism and multiphysics simulations. Hands-on sessions on workstations and Shaheen II are the key components of the workshops. In 2019, KSL started a certification program that became quite popular among Saudi students. Since the start of this certification program, 260 students have been certified in CFD and CSM. These engineering services of KSL have a high potential to cater to the upcoming nuclear human capacity building within the kingdom and will be extensively discussed in the full-length paper.

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