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DEAP-3600 is a dark matter direct detection experiment running at the SNOLAB in Sudbury, Canada. The spherical detector is situated 2 km below the earth's surface with a low cosmic muon background environment consisting of 3.3 tonnes of liquid argon target surrounded by an array of 255 photomultiplier tubes. The major backgrounds for DEAP-3600 come from alpha particles induced by dust particles present inside the detector and detector components, from external neutrons, and from Argon-39 beta decays. In this talk, the latest results from DEAP-3600 and effort for the detailed background model, pulse-shape discrimination, and sensitivity of the dark matter will be presented. In addition, I will review ongoing R&D projects for hardware upgrades.

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