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The discovery of the Higgs boson marked the beginning of a new era in HEP. Precision measurement of the Higgs boson properties and exploring new physics beyond the Standard Model using Higgs as a tool become a natural next step beyond the LHC. Among the proposed Higgs factories worldwide, the Circular Electron Positron Collider (CEPC) is proposed by the Chinese HEP community and to be hosted in China. The CEPC will be located in a tunnel with 100km circumference. It will operate at CME of 240 GeV as a Higgs factory. It can also operate at lower energy as W and Z boson factory. In this talk, the recent progress about CEPC accelerator and detector R&D, and study of physics potential will be presented.

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