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Abstract	The present paper originates from a student's thesis and discusses an approach for estimating the life cycle cost of aircraft engine maintenance. It provides resources on the primary factors that affect the maintenance cost of commercial aircraft engines. Building on these resources, it is shown how a parametric cost estimating model can be developed using available historic engine maintenance data. Such a model is capable of estimating the intervals of engine shop visits and the respective costs incurred at each shop visit. The primary influence factors of the model can be broken down to engine take-off thrust, engine dry weight, average flight length, applied derate and environmental conditions. The resulting model complements an aircraft life cycle cost simulation tool, which is being developed at the Institute of Air Transportation Systems at Hamburg University of Technology and DLR.