

ESSENTIAL DIFFERENCES BETWEEN ENGD AND PHD

	EngD	PhD
<i>Purpose</i>	To develop highly qualified personnel for deeply technical industrial research that can be translated into innovative products and services.	To develop highly qualified personnel who may be future academics or industry researchers.
<i>Residence at Company</i>	Expected to spend more than half the time at the company's premises.	No expectation for projects to be linked to companies unless it is an IPP.
<i>Thesis Topics</i>	Either one major research project, or a portfolio of related projects (typically 3)	One single major research project
<i>Thesis Characteristics</i>	<ul style="list-style-type: none"> ▪ Addresses problems of interest to industry partner ▪ Proposed solutions feature "deep technology" but not necessarily theoretical elegance ▪ Publications may be in the form of patents and magazine articles, not only academic conference and journal papers ▪ Work must exhibit sufficient complexity and intellectual depth to justify award of a doctoral degree ▪ Thesis need not cohesively address one line of investigation, and can comprise several loosely connected ones 	<ul style="list-style-type: none"> ▪ Addresses problems that may be of more academic than industrial interest ▪ Proposed solutions emphasize theoretical elegance and depth, possibly at the expense of model realism ▪ Publications are in academic conferences and journals ▪ Work must exhibit sufficient complexity and intellectual depth to justify award of a doctoral degree ▪ Thesis must cohesively address one line of investigation
<i>Coursework</i>	32 Units (8 Course equivalent). Compulsory MOT/Business/Industrial Engineering courses (at least 50%)	24 Units (6 Course equivalent). Usually no management courses taken.
<i>Research Output</i>	Academic papers, patents, trade journal papers	Emphasis is on publication in academic journals and conferences

