

(2) ANALYSIS OF REPLIES

71. The most important features of the returns are set out in the following table. Further figures from these returns will be found in Appendix 8 :—

Table B.—Number of Professional Engineers as Revealed by Questionnaire

-----	Branch of Engineering.	Number with University Degrees in Engineering.	Number with A.M.I.X.E.†, but not Degrees.	Number Registered as Professional Engineers, but not with Degrees or A.M.I.X.E.†	Totals.
1. Number of professional engineers employed at 31st July, 1948	Civil ..	212	220	103	535
	Electrical ..	176	135	33	344
	Mechanical ..	54	77	22	153
	Others ..	11	23	14	48
		453	455	172*	1,080
2. Number of vacancies for professional engineers at 31st July, 1948	Civil ..	61	73	11	145
	Electrical ..	73	14	3	90
	Mechanical ..	27	22	1	50
	Others ..	1	..	..	1
		162	109	15	286
3. Probable number of professional engineers in five years' time, if men with necessary qualifications are available	Civil ..	334	344	115	793
	Electrical ..	360	198	39	597
	Mechanical ..	108	126	30	264
	Others ..	27	34	18	79
		829	702	202*	1,733

*NOTE.—The increase from 172 to 202 is based on a misapprehension of the position. Professional engineers can no longer qualify in this manner. † A.M.I.X.E. means A.M.I.C.E., A.M.I.E.E., or A.M.I.Mech.E.

(3) PRESENT AND FUTURE DEMAND

72. An examination of this table shows—

(1) That the present unfilled vacancies are as follows—

Civil ..	..	145, 27 per cent. of present class total of	535
Electrical ..	..	90, 26 per cent. „	344
Mechanical ..	..	50, 33 per cent. „	153
Other branches ..	..	1, 2 per cent. „	48
Total ..	..	286, 26 per cent. of present grand total of	1,080

(2) That the estimated numbers of *additional* professional engineers required in five years' time (inclusive of present vacancies) are—

Civil ..	..	258, an increase of 48 per cent. on present class total.	
Electrical ..	..	253, „ 73 „	
Mechanical ..	..	111, „ 73 „	
Other branches ..	..	31, „ 65 „	
Total ..	..	653, an increase of 60 per cent. on present grand total.	