

Description of Chemical Works.	Trained Chemists Employed.
Explosives.....	50
Petroleum, Lampblack.....	50
Inorganic Compounds.....	250
Organic Compounds.....	1000
Various works.....	610
Sugar Works and Refineries.....	300
Starch, Dextrine, etc.....	50
Oil, fat, tanning, and dye works.....	100
Smelting works.....	400
Laboratories and Agricultural Stations.....	700
Government works.....	100
Apothecaries (Qualified).....	100
Various Chemists.....	100
	4000

The total number of chemists who had been trained in Germany in 1897 was:—

Technical Chemists in Works in Germany.....	4000
Technical Chemists in foreign countries.....	1000
Professors, lecturers, etc. of Chemistry:	
In Universities.....	150
In Technical Schools.....	250
Mining, Veterinary and Agricultural Schools.....	100
Building, Engineering and Industrial Schools.....	200
Chemists employed by the States.....	100
Private Chemists.....	400
Apothecaries (qualified).....	300
Various Chemists.....	500
	7000

Thus thinking men are saying to-day—we need better elementary education, better High School training, more practical University Science, more men who know the principles and reasons of things. Especially do we need more Science in our Industries. Look at the wasted opportunities. Out of many letters, relating to from fifty to a hundred fields of Industry which I have received from keen sighted and intelligent scientific men in Canada, I may give examples of the tremendous waste of valuable things, and of unused opportunities. Nature has given us great resources in Canada and we do not know how to use them. All these problems are suggested to us by experts: