

Demographics Study – Strathclyde Business Park

EDUCATION



EKOS Limited

economic development & regeneration

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*St George's Studios, 93-97 St George's Road, Glasgow, G3 6JA
Tel: 0141 353 1994 Fax: 0141 353 2660*

EDUCATION FACILITIES

INTRODUCTION

The SBP area has 6 Higher Education Universities and 18 Further Education colleges and over 150 Secondary schools. The area is the most densely populated with Higher/Further Education institutions in Scotland and the high density of students has an effect on the areas economic activity and potential labour pool.

The 6 Higher Education facilities located in the area are; Glasgow University, Glasgow Caledonian University, Strathclyde University, Paisley University, Stirling University and Bell College. All of these Universities (except for Bell College) were subject to Research Assessment Exercises (RAE) ratings in 2001. Every University research department is given a score based on set criteria of their research practices¹. **Table 6.1** details how many departments received a rating and also the ratings they received.

TABLE 6.1: RAE 2001 RATINGS BY INSTITUTE							
RAE 2001 rating							
	5*	5	4	3a	3b	2	1
University of Glasgow	4	19	20	4	1	-	-
University of Strathclyde	-	10	16	5	2	-	-
Glasgow Caledonian University	-	-	5	6	5	2	1
Paisley University	-	1	1	4	2	3	-
University of Stirling	-	10	6	4	2	-	-

Source: Higher Education & Research Opportunities in the UK (HERO)

The table shows that Glasgow University has achieved very high standards of academic research and achieved 4 ratings of 5* (the highest rating for a department). It has a total of 43 departments receiving a rating of 4 or above and is consistently rated amongst the top 30 Universities in the UK. Strathclyde and Stirling University also achieve high numbers of departments scoring an RAE rating of 4 and above, 31 and 20 respectively.

TOTAL GRADUATES

The Higher Education Statistics Agency (HESA) contains data on the number of graduates and their graduating subject for all Higher Education institutions in Scotland. **Table 6.2** shows the total number of graduates for the past 3 years and what percentage of the Scottish total.

¹ 5* Quality that equates to attainable levels of international excellence in more than half of the research activity submitted and attainable levels of national excellence in the remainder;
 5 Quality that equates to attainable levels of international excellence in up to half of the research activity submitted and to attainable levels of national excellence in virtually all of the remainder;
 4 Quality that equates to attainable levels of national excellence in virtually all of the research activity submitted, showing some evidence of international excellence;
 3a Quality that equates to attainable levels of national excellence in over two thirds of the research activity submitted, possibly showing evidence of international excellence;
 3b Quality that equates to attainable levels of national excellence in more than half of the research activity submitted;
 2 Quality that equates to attainable levels of national excellence in up to half of the research activity submitted;
 1 Quality that equates to attainable levels of national excellence in none, or virtually none, of the research activity submitted.

	99/00	00/01	01/02	02/03	Absolute Change	% Change
Bell College	-	-	1,210	1,180	-30	-2.5%
Glasgow Caledonian University	3,630	3,625	3,005	4,035	405	10.0%
University of Glasgow	3,730	5,000	4,915	5,145	1,415	27.5%
University of Paisley	2,440	2,275	3,390	3,055	615	20.1%
University of Stirling	1,400	2,275	2,155	2,370	970	40.9%
University of Strathclyde	6020	5450	5565	5290	-730	-13.8%
Total	17,220	18,625	19,030	19,895	2,675	13.4%

Source: HESA

The total number of graduates in the SBP area has increased by 2,675 (13.4%) since 1999 and is approximately 20,000 (43% of total Scottish graduates). The university of Glasgow has seen the greatest absolute rise in graduates, accounting for more than 50% of the areas total rise in graduates, whilst Stirling University has experienced the greatest percentage change with an increase of over 40%. Only Strathclyde University has seen any significant drop in graduates 730 (-13.8%).

Table 5A in the **Appendix** breaks down the number of graduates into principal graduating subjects and shows which subjects are producing the highest number of graduates for the area. This can be linked with Futureskills Scotland data on employment forecasts to identify any immediate or potential skills gaps in the future.

The main findings from **Table 5A** are:

- Glasgow University is the only institution to offer courses in Medicine and Dentistry, in 2002/03 there were 350 graduates;
- Strathclyde and Glasgow Caledonian Universities had 1,000 students each graduating in Business and Administrative studies, this represents approx 24% of the total Business students in Scotland;
- Glasgow University has 24% of Scotland's Language graduates;
- the area has over 4,000 graduates per annum in subjects allied to Medicine and Biological sciences; and
- 46% of Scotland's students graduating in Engineering and Technology are from an SBP area located University

The table shows the subjects that attract the highest number of students and hence have the highest levels of graduates. The most popular subjects with regards to highest number of graduates can be aligned with key growing

industries and forecast growth industries within the SBP area and also within the wider area.

Business studies subjects can be aligned with the Financial Services industry, which includes Banking, Insurance and Financial Intermediation. The industry has seen an increase of 1,100 employees and over 100 businesses in the past five years. Financial service businesses located in SBP include Woolwich and Camelot PLC.

Other growing and important sectors in the region are the Life Sciences and Knowledge Industries sectors, which are closely aligned to the Biomedical Science and Engineering and Technology disciplines. There are a growing number of companies in the region that require employees of graduate level like Organon in North Lanarkshire as well as Knowledge Industries located within SBP; these include Cissco Systems, Danka Business systems and Digital animations.

From the available data the Universities in the area are providing high numbers of graduates in subjects aligned to important and growing industry sectors for the region and also for SBP. The presence of such a large skilled/highly skilled workforce will have benefits for the region and more specifically for SBP with regards to expansion of established businesses being able to 'tap' into the local labour pool and knowledge.

FURTHER EDUCATION

There are 18 Further Education (FE) colleges located in the SBP area, 12 of those are situated in and around Glasgow, 4 in Lanarkshire and 2 in Ayrshire. **Table 6.4** shows the colleges and the total count of students in FE and there is additional information showing links between subjects and industry sectors.

TABLE 6.4: FURTHER EDUCATION COLLEGES	
College name	Count
Anniesland College	8,863
Cardonald College	11,801
Central College of Commerce	8,830
Clydebank College	10,944
Coatbridge College	5,149
Cumbernauld College	7,041
Glasgow College of Building and Printing	9,647
Glasgow College of Food Technology	7,366
Glasgow College of Nautical Studies	10,098
Kilmarnock College	11,088
Ayr College	8,096
John Wheatley College	7,120
Langside College	13,725
Motherwell College	20,662
North Glasgow College	7,612
Reid Kerr College	15,953
South Lanarkshire College	5,790
Stow College	10,559
SBP Area	200,766
Scottish total FE students	467,173

Source: Infact database

The SBP area has 40% of the total FE students in Scotland, a relatively high percentage. Similarly to the University breakdown by subject, the highest numbers of students are now in the subjects aligned with the growing and key industries in the region:

- 15,670 students are studying Business management/marketing/distribution and other Financial service related subjects;
- computer and information technology related subjects have over 28,125 students;
- 16,200 in Knowledge industry related subjects of Engineering, Chemicals manufacturing and Transport; and
- 21,500 students in Healthcare related subjects – one of the biggest and fastest growing sectors in Scotland.

Similarly to the university data the FE college statistics show that the highest numbers of students in the area are studying subjects aligned to the SBP areas growth and key industries and additionally to industries within the park.

The universities and colleges have a large catchment area for a number of schools in the SBP area. **Table 6.5** shows the number of Secondary and Primary schools in the area.

TABLE 6.5: SECONDARY AND PRIMARY SCHOOLS IN SBP AREA		
	Primary	Secondary
East Dunbartonshire	37	9
West Dunbartonshire	34	7
Stirling	44	9
East Renfrewshire	25	8
Renfrewshire	52	14
North Ayrshire	53	10
East Ayrshire	47	9
Glasgow	190	37
North Lanarkshire	131	26
South Lanarkshire	127	21
Total	740	150

Source: Scottish Executive

Glasgow and North and South Lanarkshire have the most Secondary and Primary schools, due to the relative sizes of the region.

EDUCATIONAL LINKS WITH BUSINESS

Futureskills Scotland commissioned a report on employer's engagement with Further Education Colleges **Table 6.6** shows the employment levels for new graduates by area and industry. The report additionally examined the workplaces that used Further Education Colleges for their training.

Most of the FE colleges in the area had loose links with businesses and there is an emphasis on promoting business growth through links between education and industry.

The universities in the area also had links with businesses including guest lecturers from local enterprises and industrial placement courses. The courses can last up to 12 months on full or part time basis and paid or unpaid. The largest selection of placement courses exist in Glasgow Caledonian and Paisley University, although all the universities have a reputation for their commitment in furthering the academic experience via industrial placements and 'working years'.

Glasgow Caledonian offers a range of industrial placement courses ranging from Business studies, Construction management to Bioscience research. Amongst the placement schemes available in the Business studies department students get the opportunity to work in some of the UK's biggest and leading companies, including British Airways, Marks & Spencer's, IBM and Lloyd's TSB.

Paisley University Business School is also very active in preparing students for working life by providing a number of industrial placement schemes.

TABLE 6.6: RECRUITMENT IN HIGHER AND FURTHER EDUCATION							
	% of companies who have recruited in the past 2 - 3 years	% of company's who recruit school, college or University leavers			Recruits taken on in last 3 years as a % of the current workforce (2004)		
		Secondary school	FE College	University	Secondary school	FE College	University
Total 2004	73%	18%	13%	12%	6%	4%	3%
Total 2003	79%	25%	17%	13%	-	-	-
Total 2002	72%	20%	14%	12%	-	-	-
Industry 2004							
Agriculture, forestry and fishing	40%	6%	2%	1%	6%	2%	0%
Energy and water	87%	9%	5%	8%	1%	1%	2%
Manufacturing	75%	26%	12%	11%	30%	1%	1%
Construction	56%	22%	8%	5%	7%	2%	1%
Wholesale and retail	70%	25%	12%	9%	13%	6%	4%
Hotels and restaurants	86%	24%	27%	15%	18%	12%	9%
Transport, storage and communications	76%	16%	9%	8%	4%	2%	2%
Financial intermediation	63%	14%	9%	11%	3%	1%	3%
Real estate and activities	69%	11%	9%	15%	3%	3%	6%
Public administration and defence	76%	12%	15%	22%	3%	2%	2%
Education	90%	20%	33%	26%	2%	3%	3%
Health and social work	84%	14%	19%	19%	2%	3%	2%
Other services	78%	17%	13%	11%	7%	6%	5%
Establishment sizeband 2004							
1-4 employees	56%	8%	5%	4%	7%	5%	3%
5 - 9 employees	89%	24%	16%	16%	9%	4%	6%
10 -24 employees	96%	32%	25%	21%	8%	6%	4%
25-49 employees	98%	40%	32%	29%	8%	5%	4%
50-249 employees	99%	49%	42%	43%	6%	4%	3%
250+ employee	99%	65%	61%	71%	3%	2%	2%

Source: Futureskills Scotland