



# EPC engineering enrolments survey 2022/23

Thank you for member contributions to this year's EPC  
engineering enrolments survey.



# About the EPC enrolments survey

- Annual EPC membership service
  - Early temperature check on under/postgraduate engineering
  - An early sign of changing patterns of enrolment
- Exclusive insight
  - Partial (*undergraduate admissions*) data available soon
  - Sector 2022/23 postgraduate and enrolment data collection ongoing
  - Not published by Jisc (HESA) for many, many months
- Survey, not collection
  - Enrolment data provided by our members



## What's new for 2022

- More members submitted a survey (44) in 2022 (over half)
- More students (c35K)
- More discrete disciplines (210)
- Non-Russell-Group heavy (c2:1)
- EU breakdowns evidentially no longer viable
- Other gender considered but small numbers restrictive



# What's new for 2022

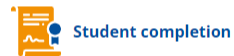
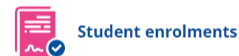


## What's new for 2022

- New Data explorer service
  - Results are included as the latest data stream
  - Accessible, dynamic and flexible
- Members can, for the first time
  - Explore the findings online
  - Drill down and dissect results by specific cohorts
  - Filter to own disciplines of interest
  - View visualisations to suit
  - Download summary datasets which preserve provider confidence
  - Discuss the findings with the wider network



### Data explorer



Publications

Data explorer

Toolkits

Welcome, Stella Fowler



## Enrolments survey

Every year, the collective results of the EPC engineering enrolments survey give us all a first glance at engineering enrolments long before official data becomes available. We are grateful to our members who complete the survey for the benefit of us all. You have told us that that the data is used in many ways, from enabling individual members and departments to understand their experience relative to the sector, to evidence-based decision making on new courses to offer. In the last couple of years, this insight has been more important than ever.





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What's the pattern of engineering enrolments in 2022? >

Are engineering students enrolling on undergraduate or postgraduate courses in 2022? >

How do part-time engineering enrolments vary by discipline in 2022? >


Are females well represented among engineering enrolments in 2022? >

In which UK regions are engineering students enrolling in 2022? >

EPC Engineering Enrolments Sur x Enrolments survey – Engineering x Engineering Professors Council – x +

epc.ac.uk/?page\_id=656

Engineering Professors Council 0 + New Edit Page Insights WPForms 4 Stella Fowler



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Do female / male 2022 engineering enrolments vary by region? >

Do new 2022 engineering enrolments come from the UK or overseas? >

Does 2022 home and overseas engineering enrolment vary by UK region? >

How do (non) Russell Group engineering enrolments compare in 2022? >

Are engineering enrolments in each discipline in 2022 higher or lower than last year? >

Are Russell Group engineering enrolments in 2022 higher or lower than last year? >

Are engineering enrolments in England / Scotland / Wales / Northern Ireland in 2022 higher or lower than last year? >

https://epc.ac.uk/?post\_type=analysis&p=118314

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## Headlines


IT systems sciences & computer software engineering now leader discipline following prolonged period of growth in our survey.

Overseas postgrads up by 11 percentage points, to 82% of postgrads (despite expected EU drop off) .

Electronic, electrical and computer engineering has strong overseas market. First degree overseas also promising following dip last year

No change in female leader disciplines. Recruiting postgraduates from further afield increases female enrolments (Russell Group)

Traditional disciplines of Civil, Mechanical and Chemical, process and energy engineering down this year + Bioengineering...



## Discipline headlines

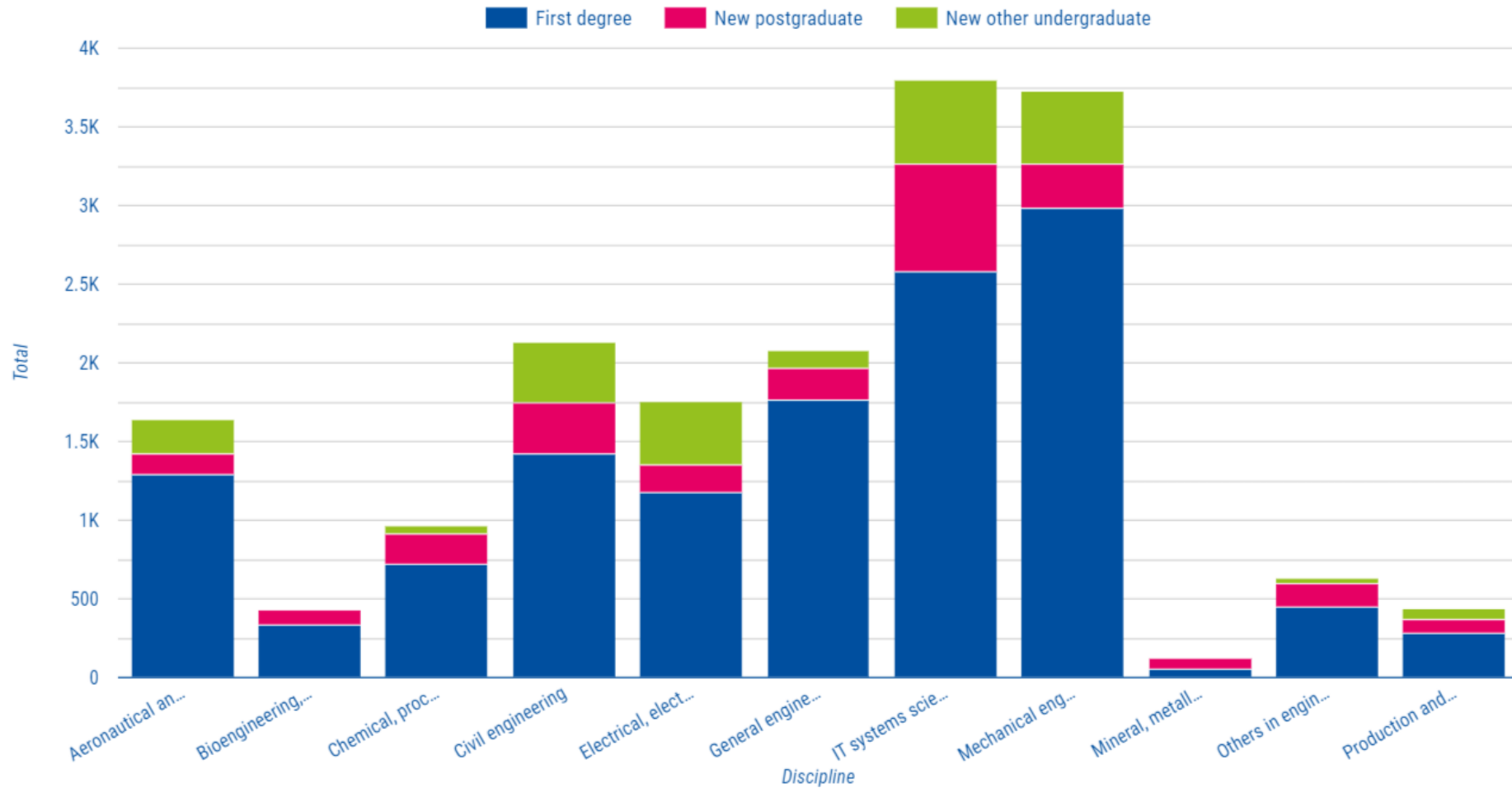
- Top two
  - IT systems sciences & computer software engineering
  - Mechanical engineering
- IT systems sciences & computer software engineering is the most popular discipline in our 2022 sample, for the first time
  - We've observed relative growth here for a few years
- Electronic particularly strong in the overseas market





# Engineering Professors COUNCIL

The voice of engineering academics



# Engineering enrolments survey

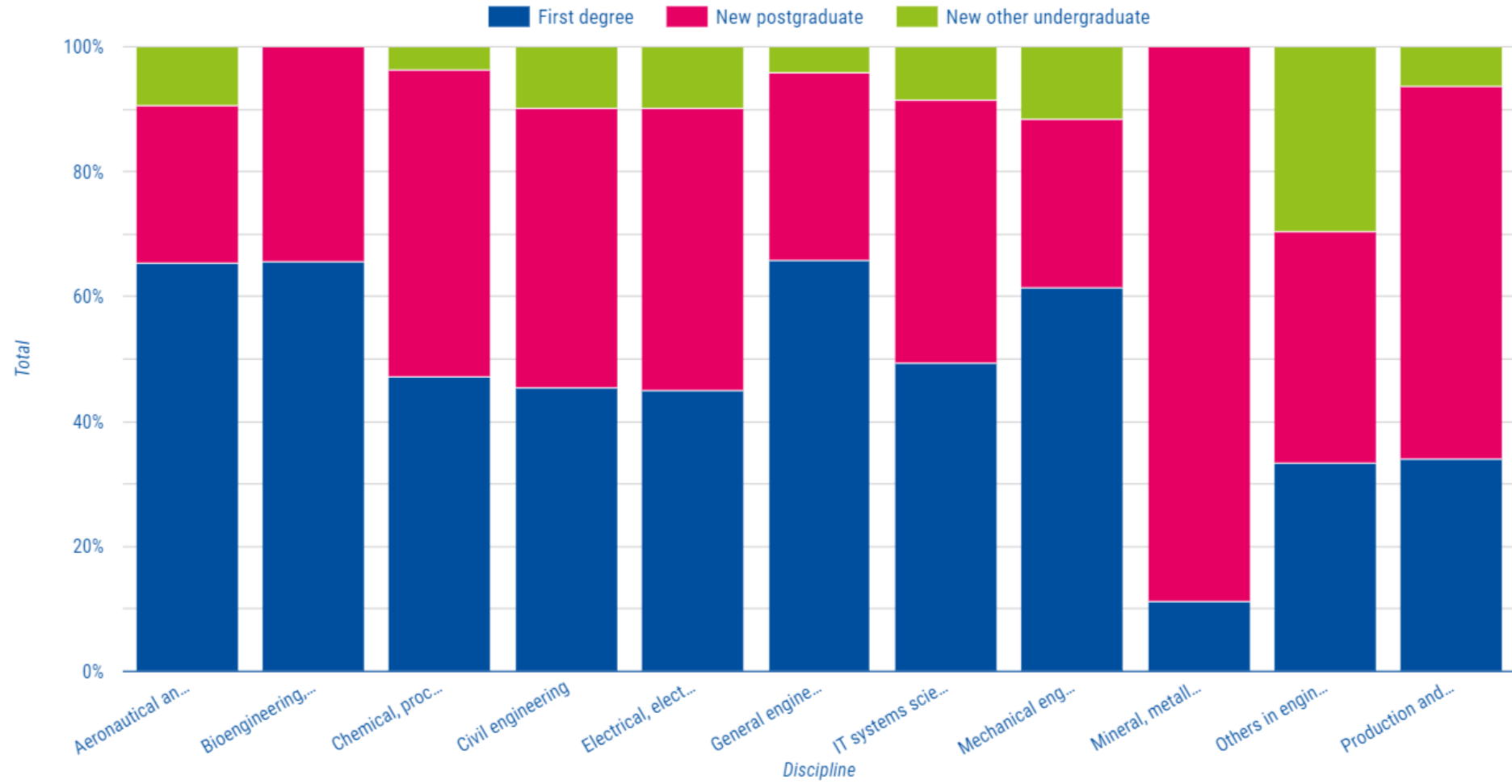
- First degrees account for the lions share of enrolments in:
  - Aeronautical and aerospace engineering
  - Bioengineering, medical and biomedical engineering
  - General engineering
  - Mechanical engineering
- Over 50% are postgraduates in:
  - Mineral, metallurgy & materials engineering
  - Production and manufacturing engineering
  - Chemical, process and energy engineering





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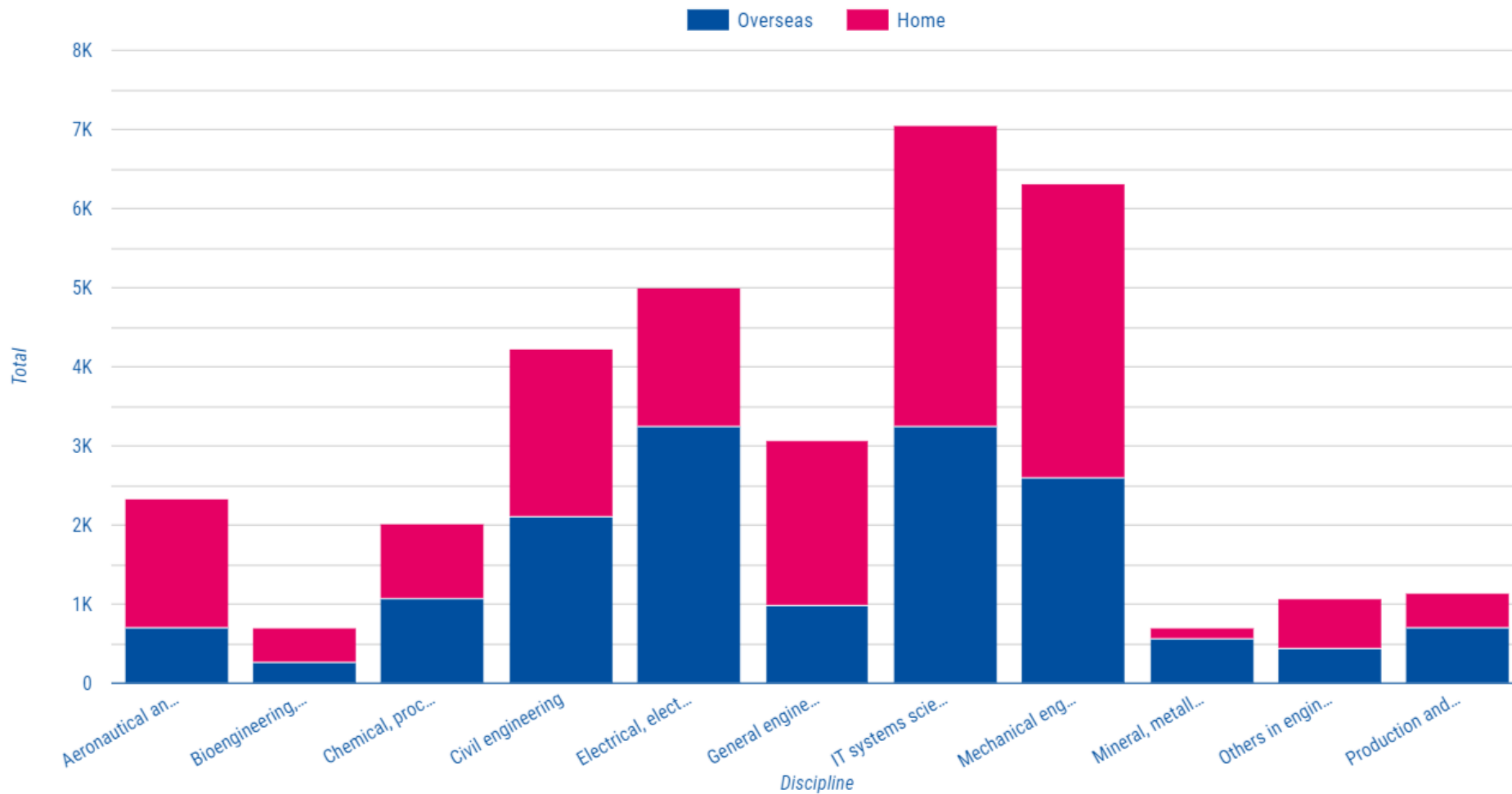
The voice of engineering academics





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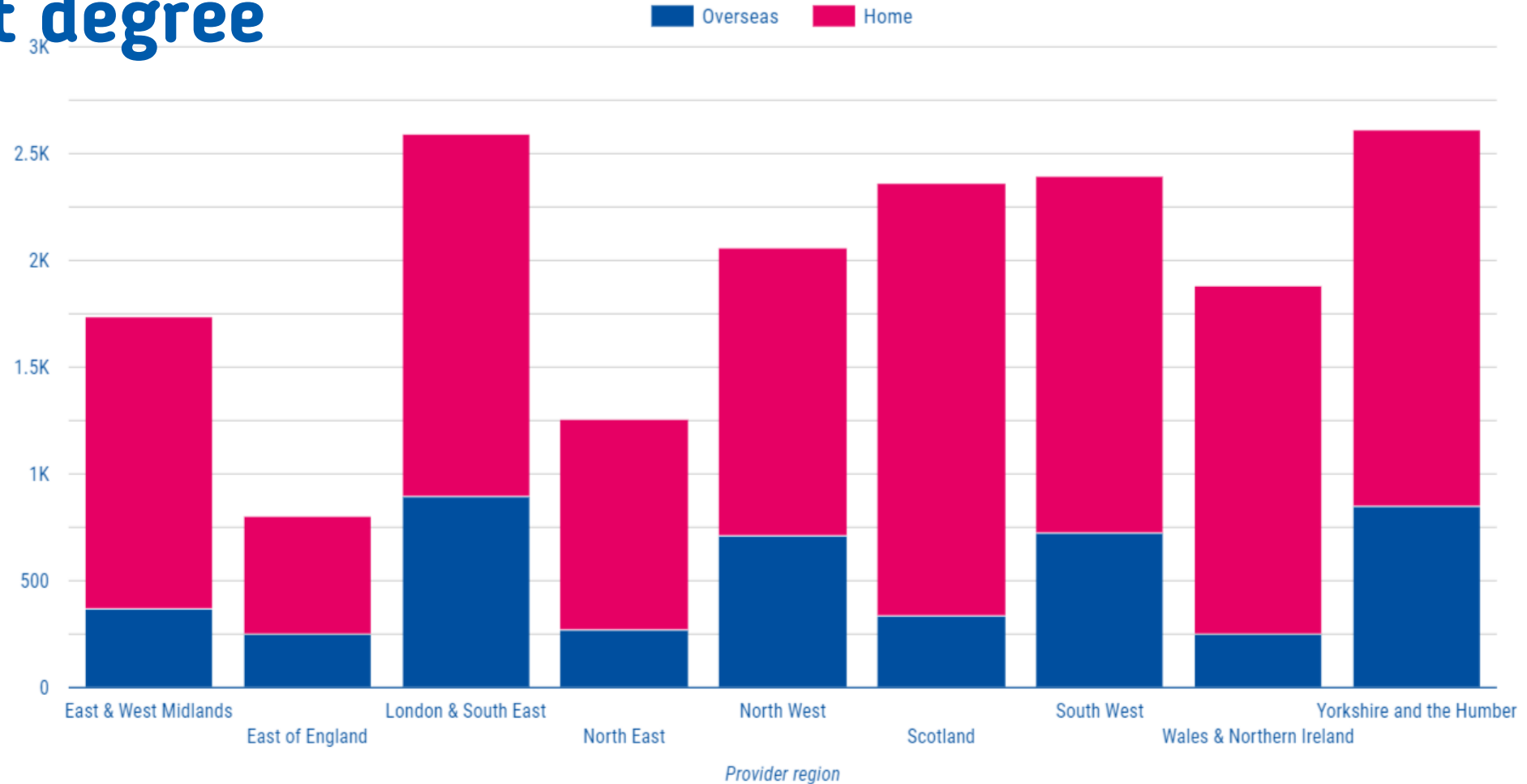
# Home and overseas

- Engineering is hugely reliant on overseas enrolments.
  - First degree overseas market stronger than last year
  - 82% of postgraduates were from overseas in our sample
  - Continuing upward trend since at least 2019 survey (sharp increase from 71% in 2021)
  - We don't know if this continues to shroud EU decline (small numbers reported in our sample)

Level	Home	Overseas
First degree	73.7%	26.3%
New other undergraduate	90.5%	9.5%
New postgraduate	17.8%	82.2%
Grand Total	52.7%	47.3%

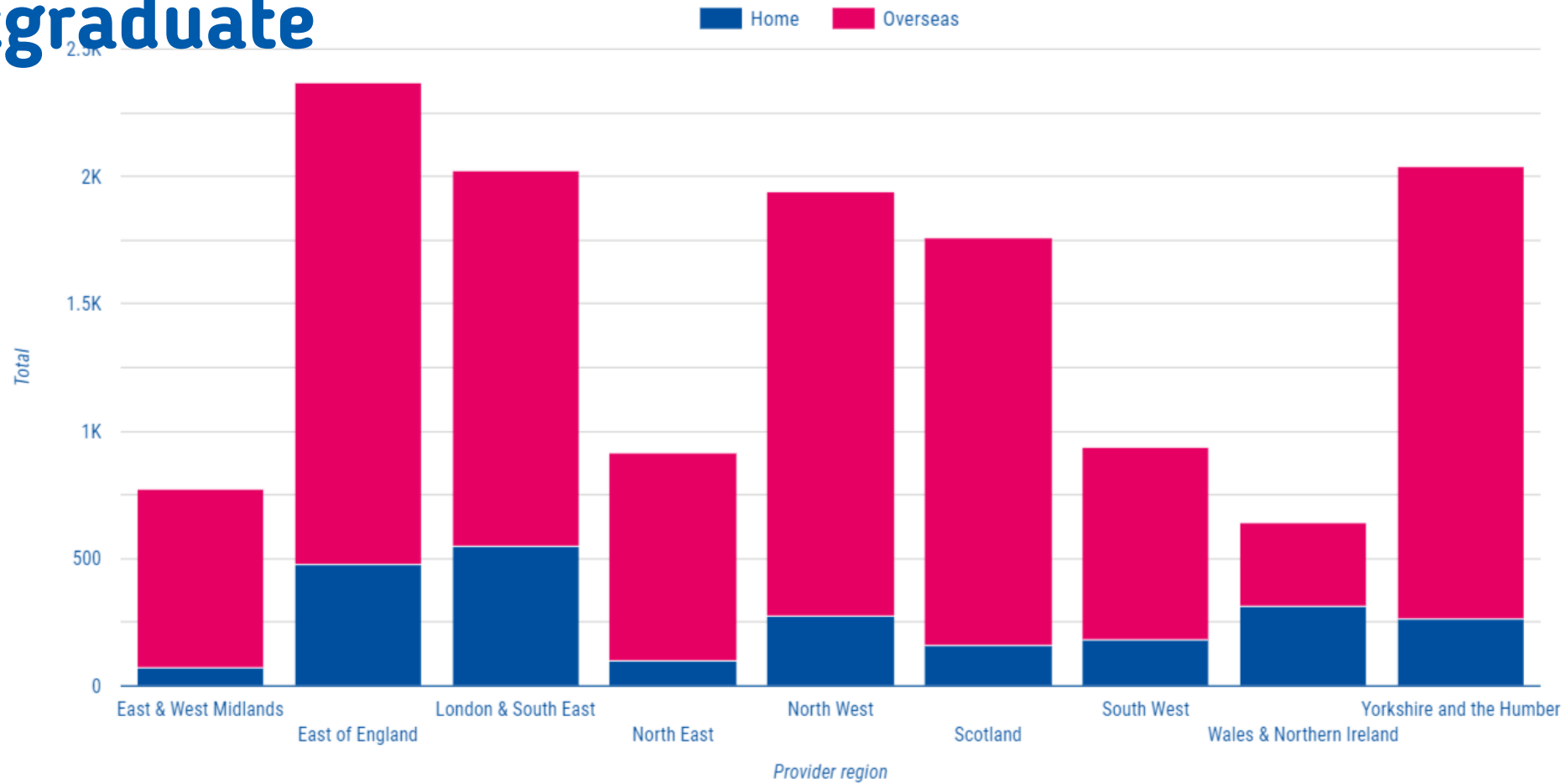


# First degree

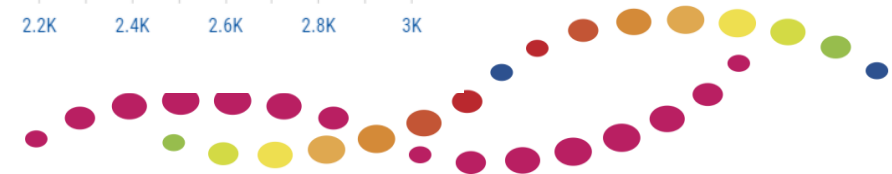
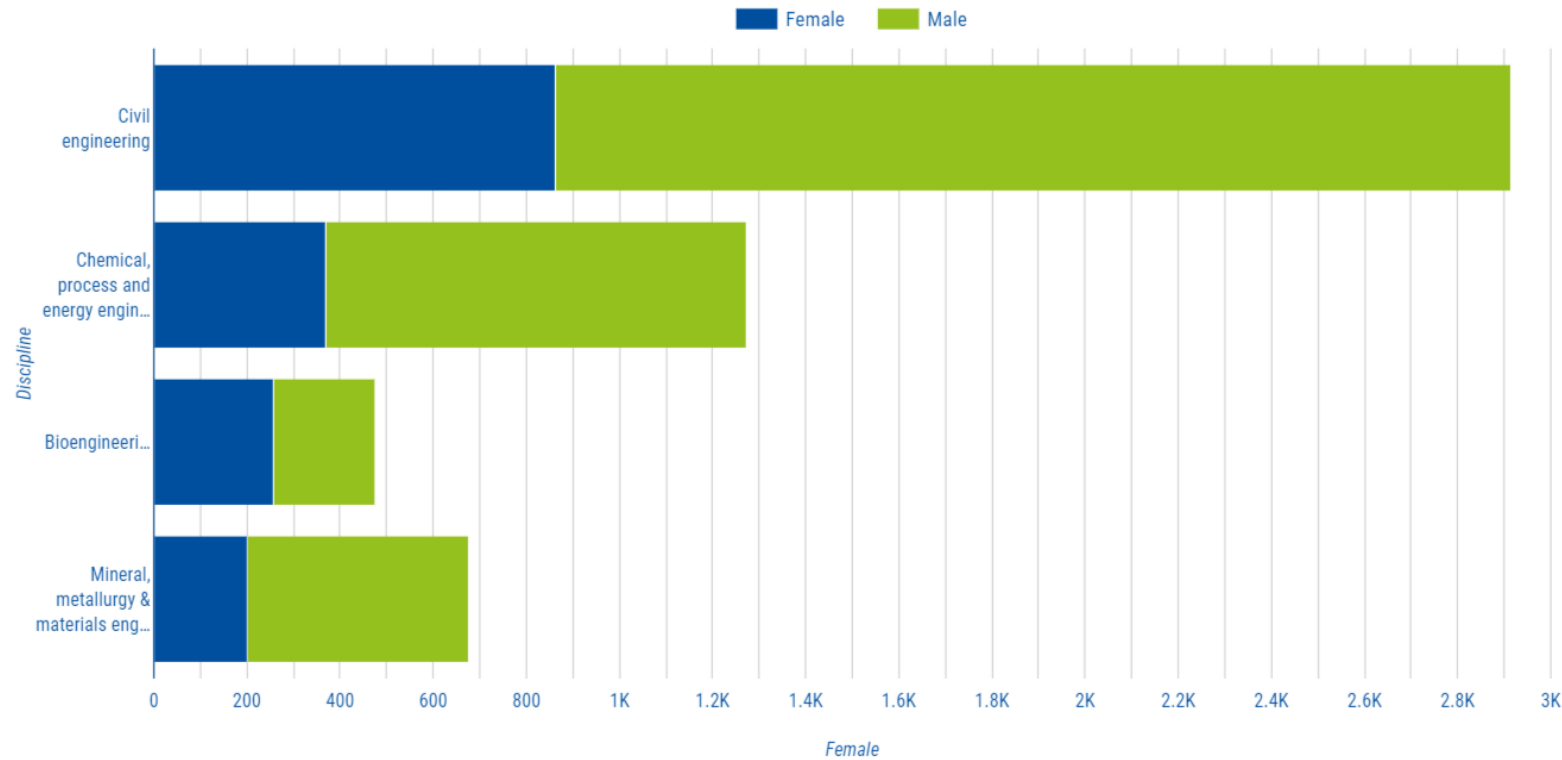




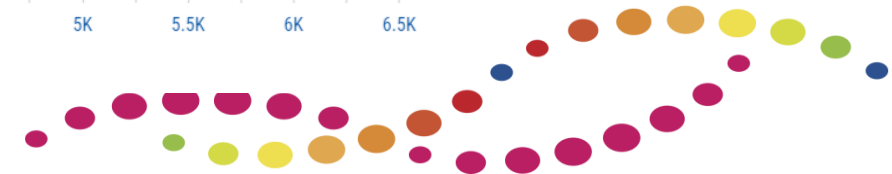
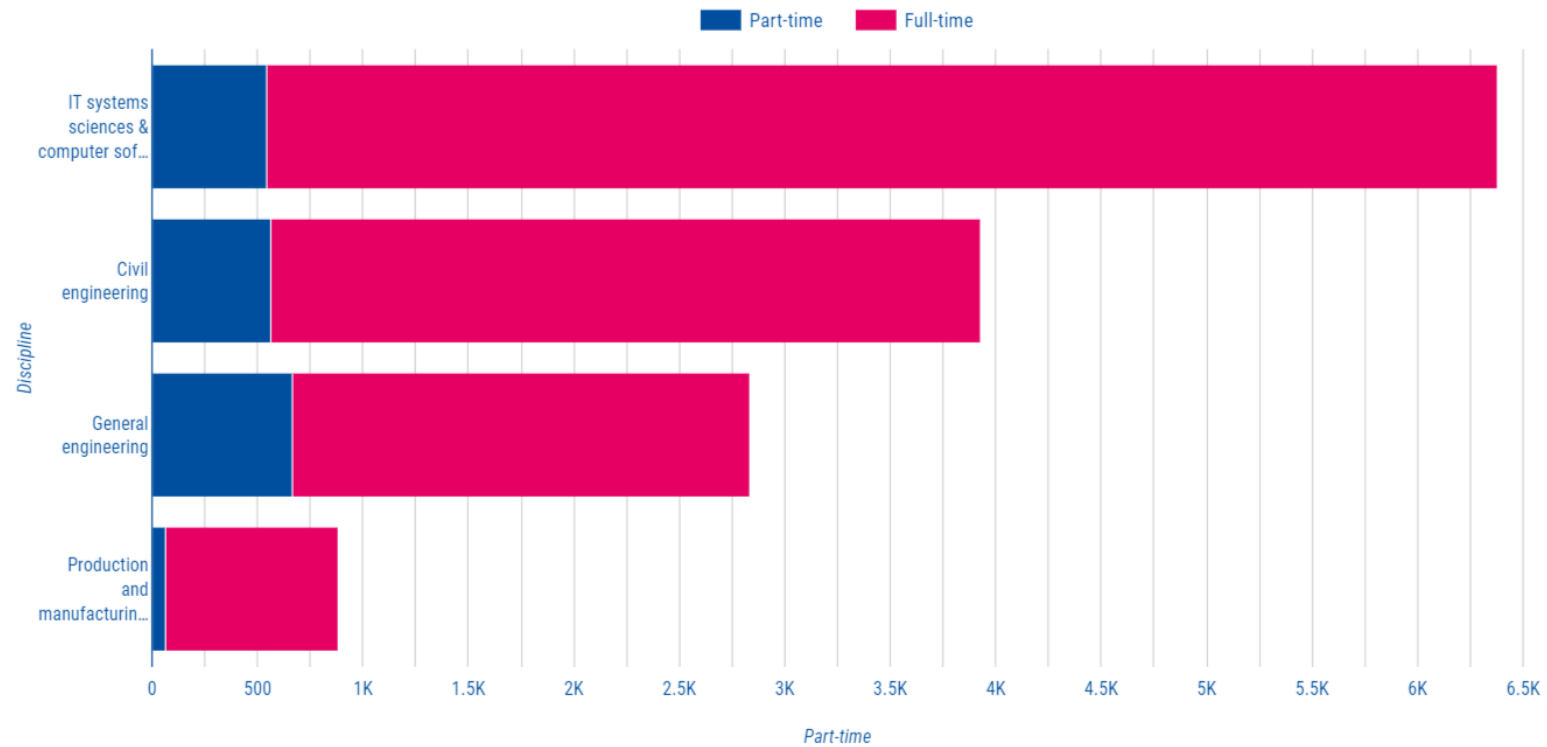
# Postgraduate



# Disciplines with largest female proportions



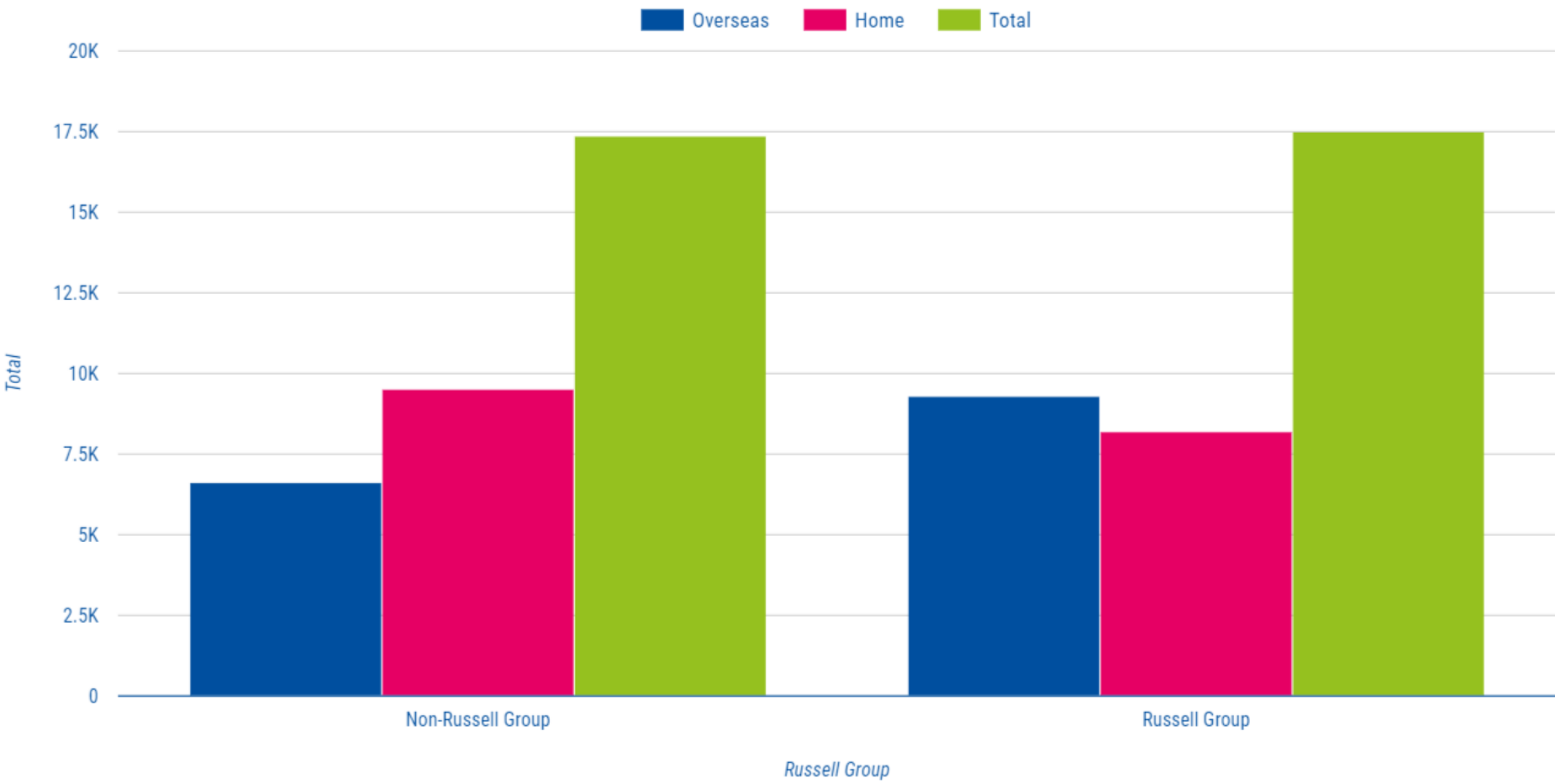
# Disciplines with largest part-time proportions





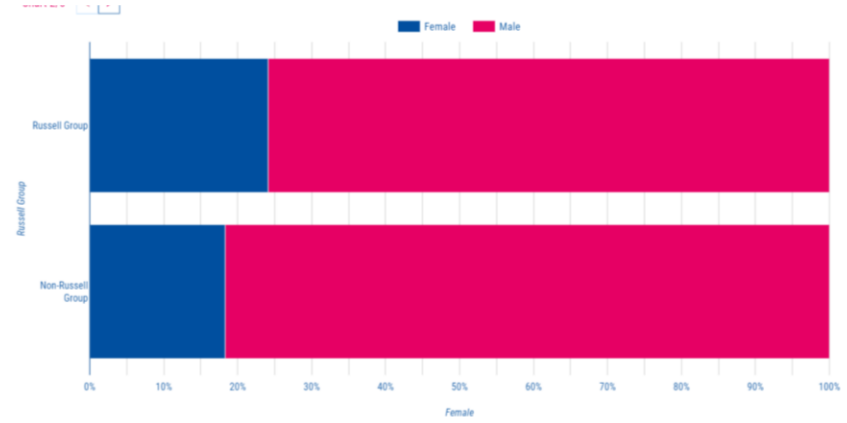
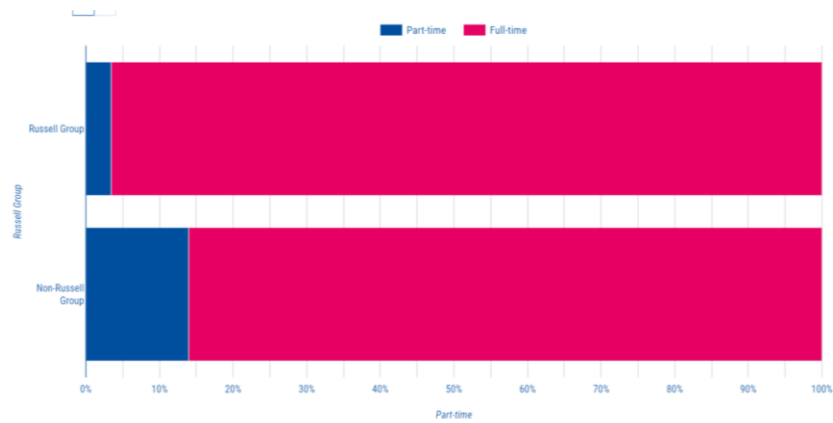
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# Part time

# Female

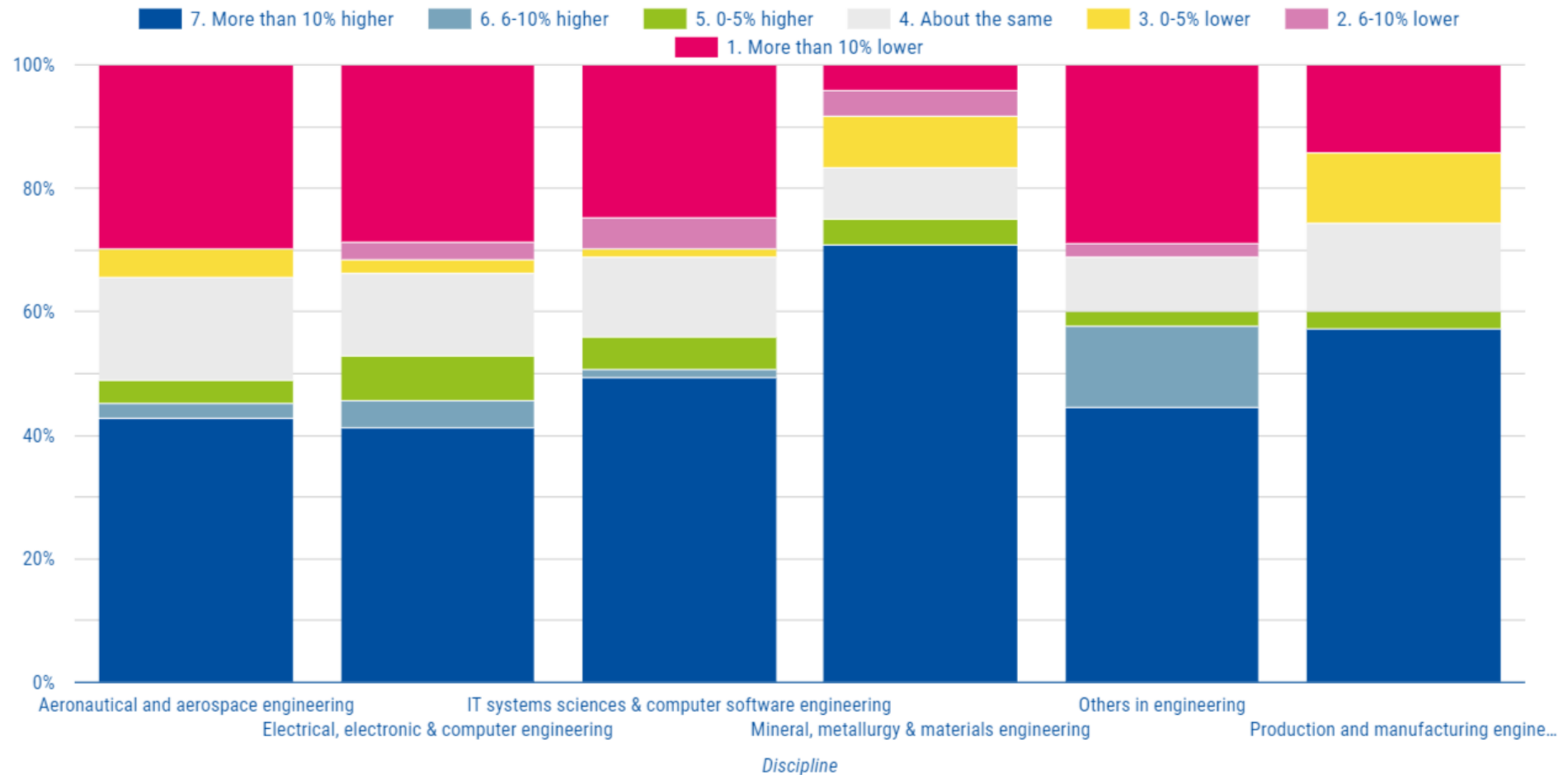


# Higher or lower enrolments

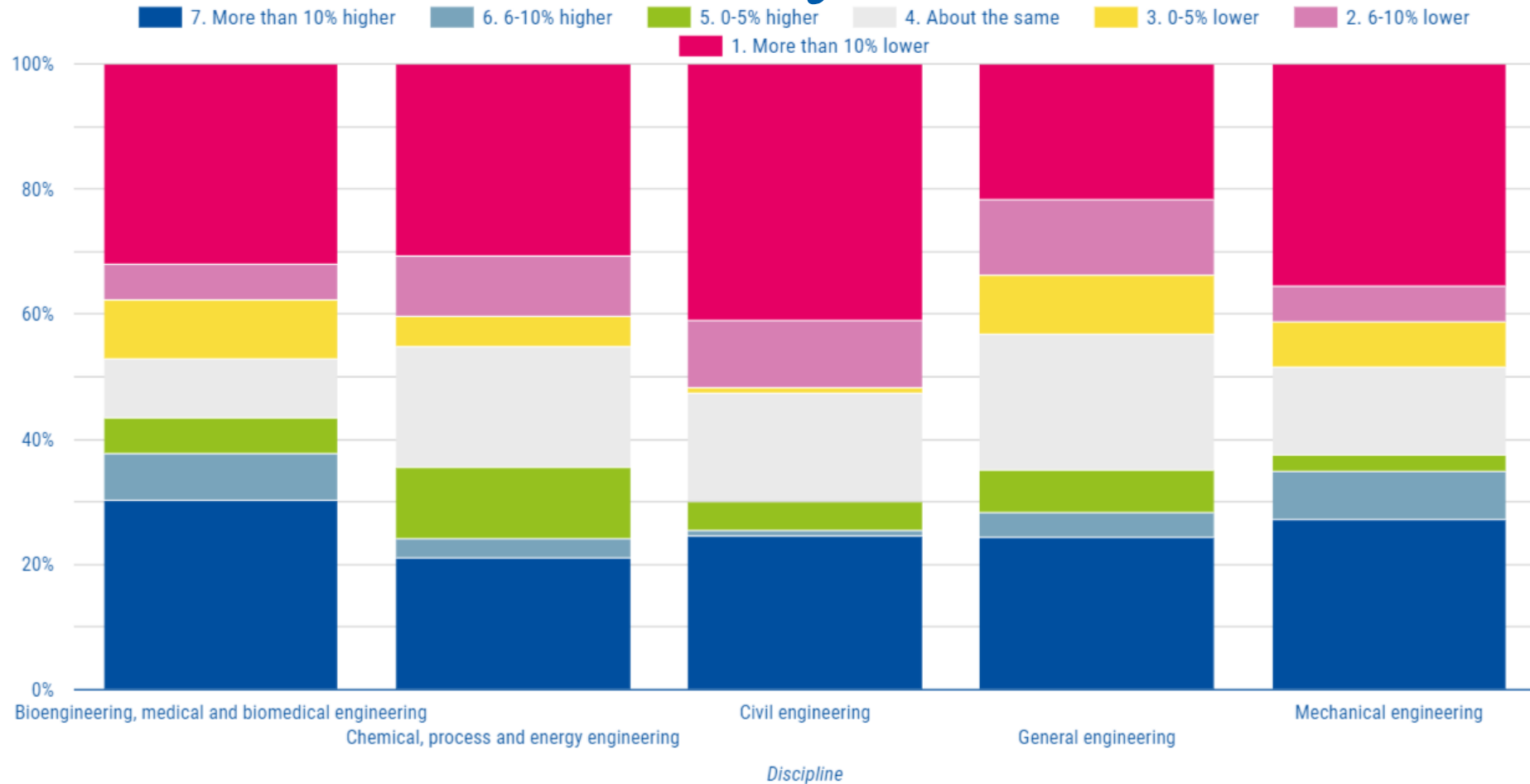
- If the greyed *About the same* in the middle is below the half-way mark, it means an overall decrease in enrolments, above= an overall increase. The rest is refinement.
- Can further refine online by limiting subjects through the controls.
- Winners:
  - Mineral, metallurgy & materials engineering
  - Production and manufacturing engineering
  - IT systems sciences & computer software engineering
- Losers:
  - Civil, Mechanical and Chemical, process and energy engineering
  - Bioengineering, medical and biomedical engineering



# Higher enrolments than last year



# Lower enrolments than last year

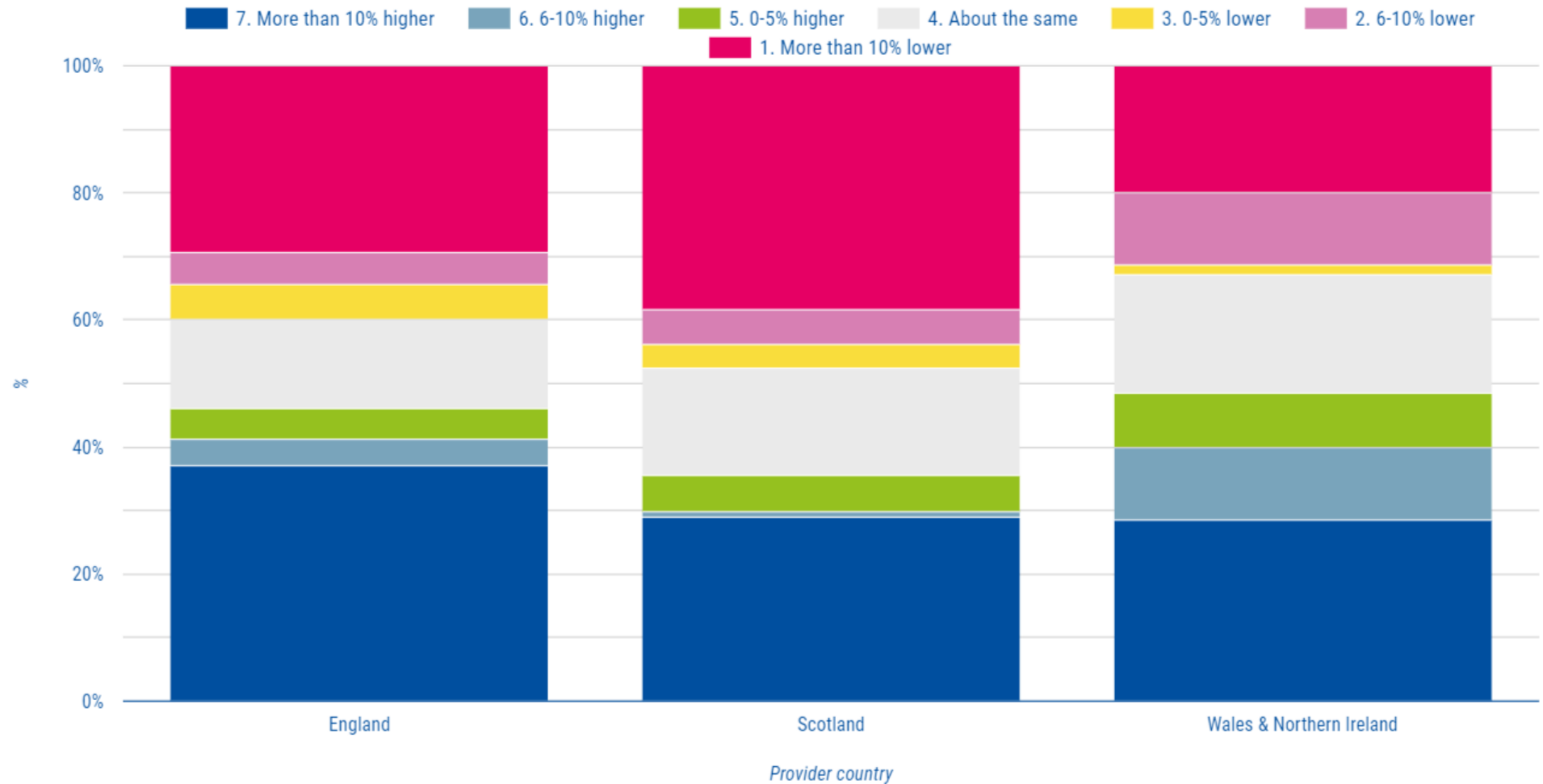






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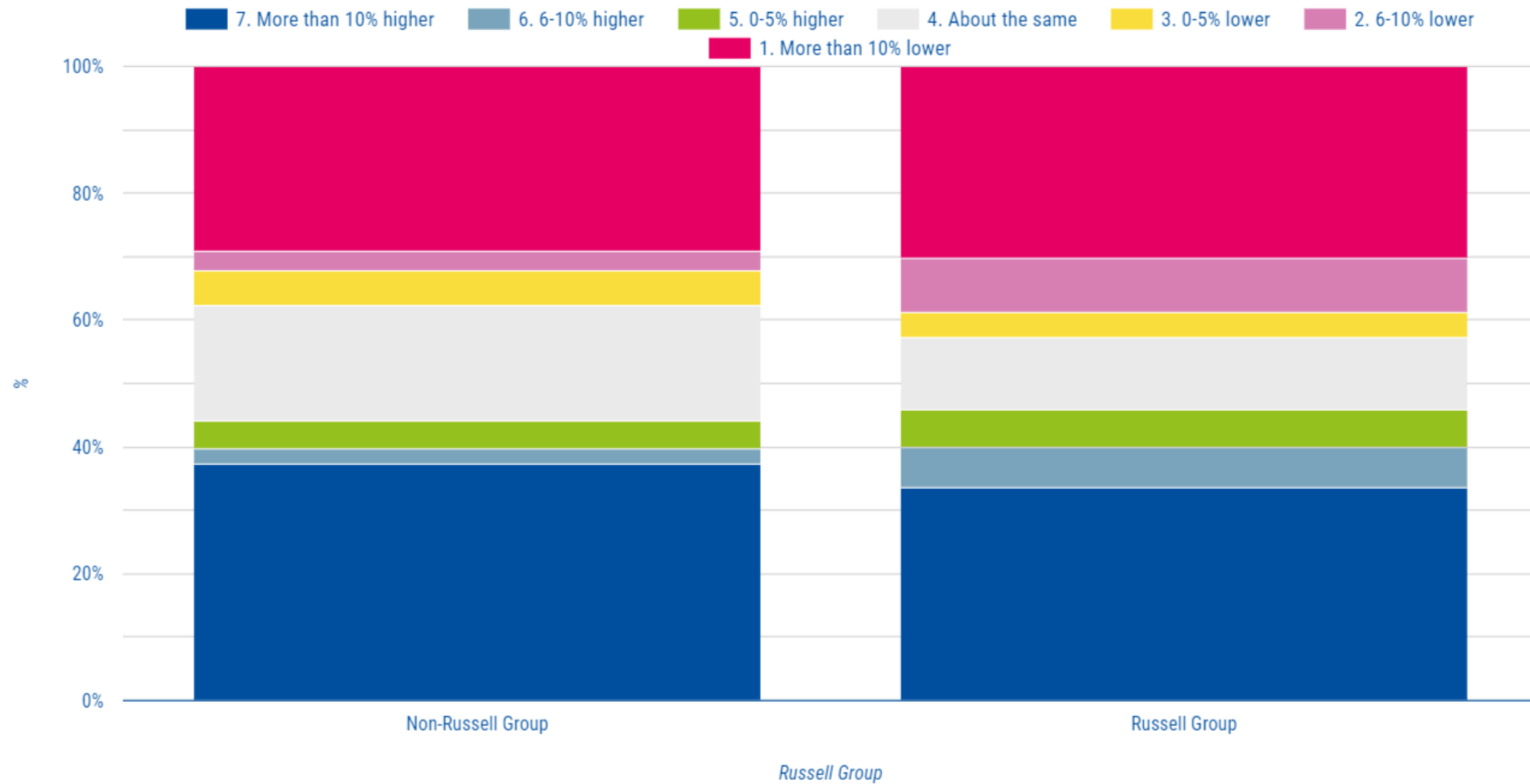
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# Closing reflections

- EPC survey offers early warning signals, not the definitive word
- Recruitment / selection is made in context
  - National pressures (Post-covid demand)
  - Institutional strategies and targets
- The results will also be launched on EPC online shortly
- Questions and feedback welcome
  - EPC online discussion and comment
  - EPC online Takeaways
- Thank you

