Hands-on introduction to HPC for life scientists

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PRACE & BioExcel

Center of Excellence for Computational Biomolecular Research

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EMBL-EBI

Training and Dissemination

Partners

Funding

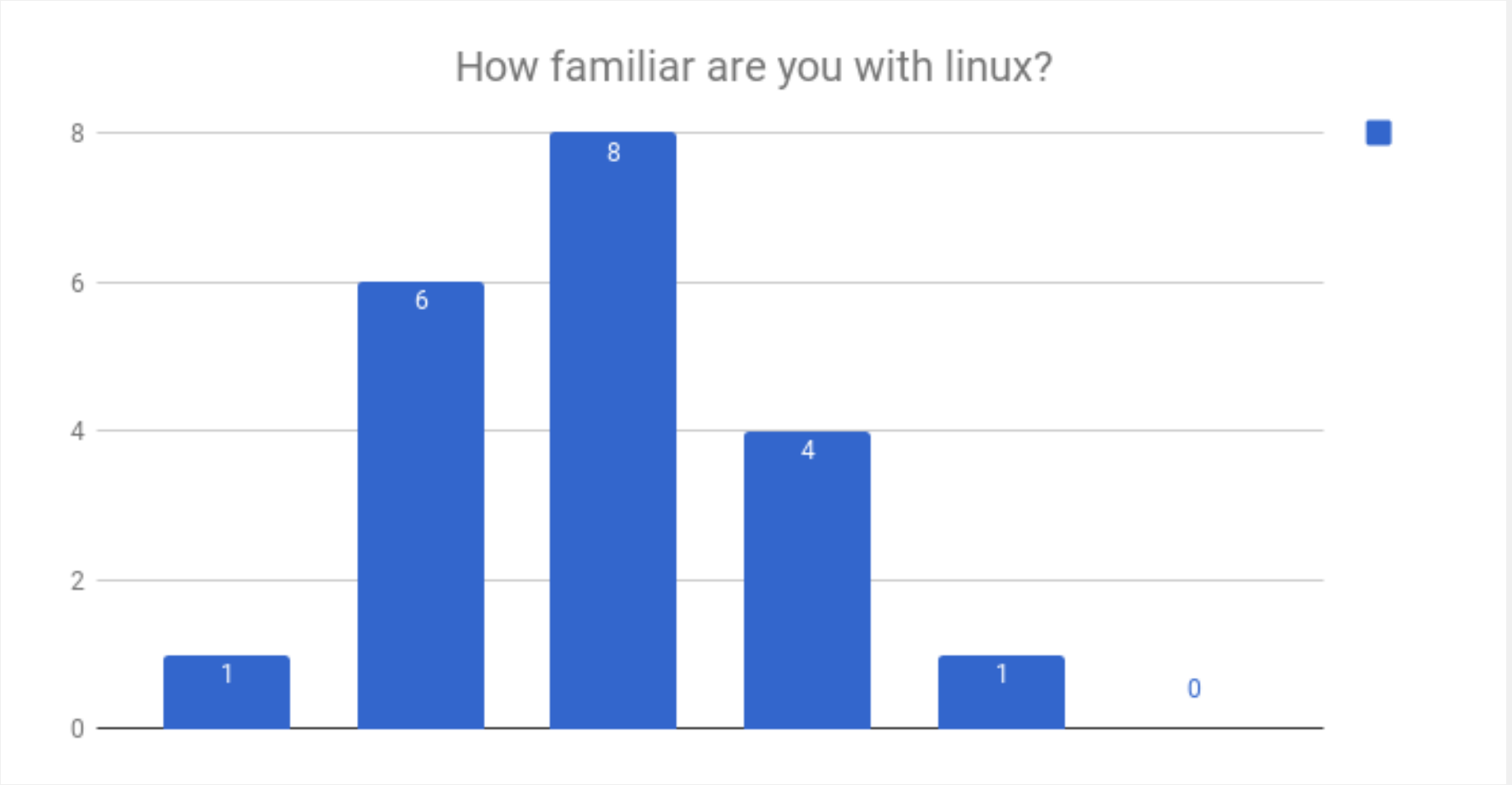
Horizon 2020
European Union Funding
for Research & Innovation

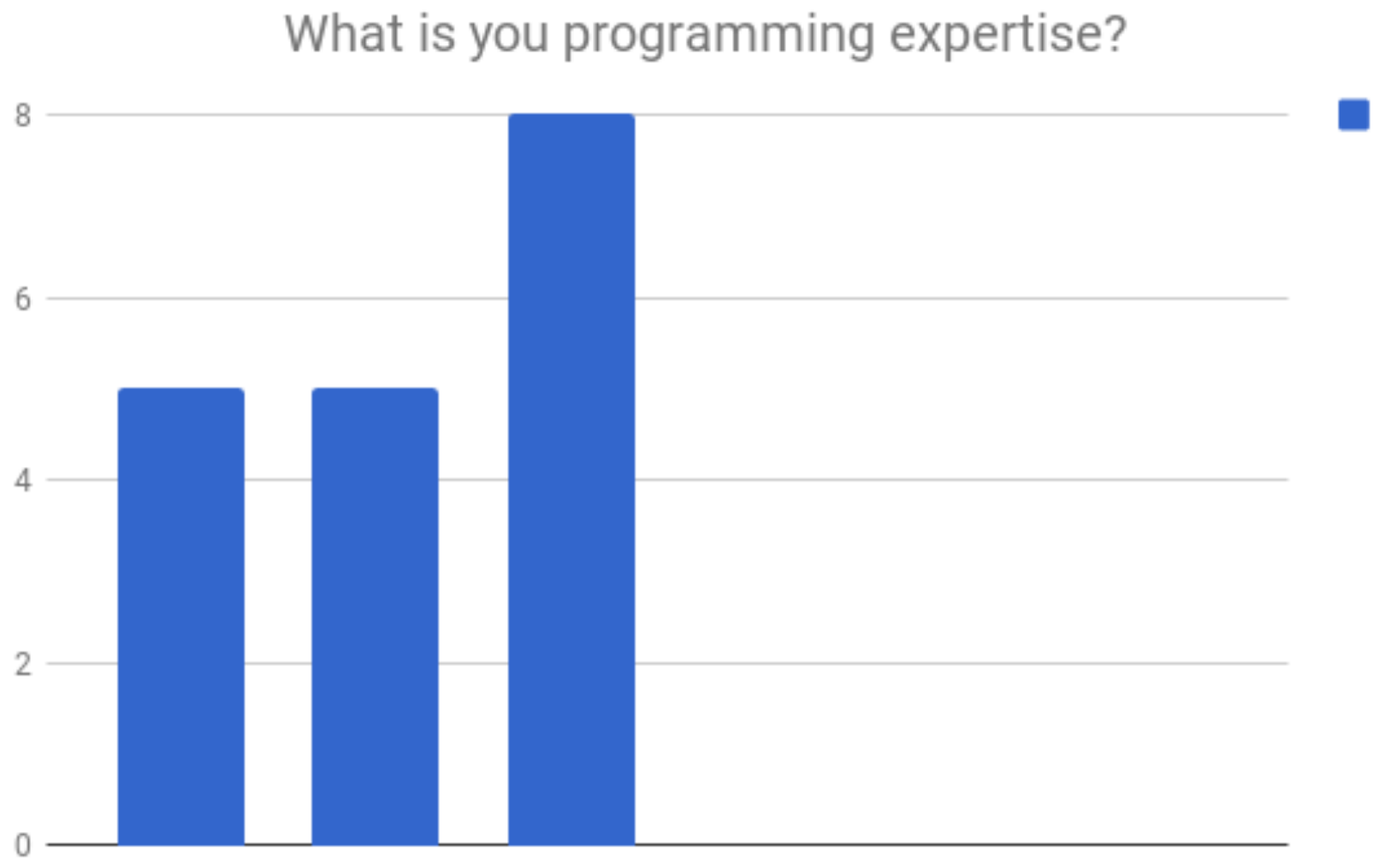
Activity: Human barometer

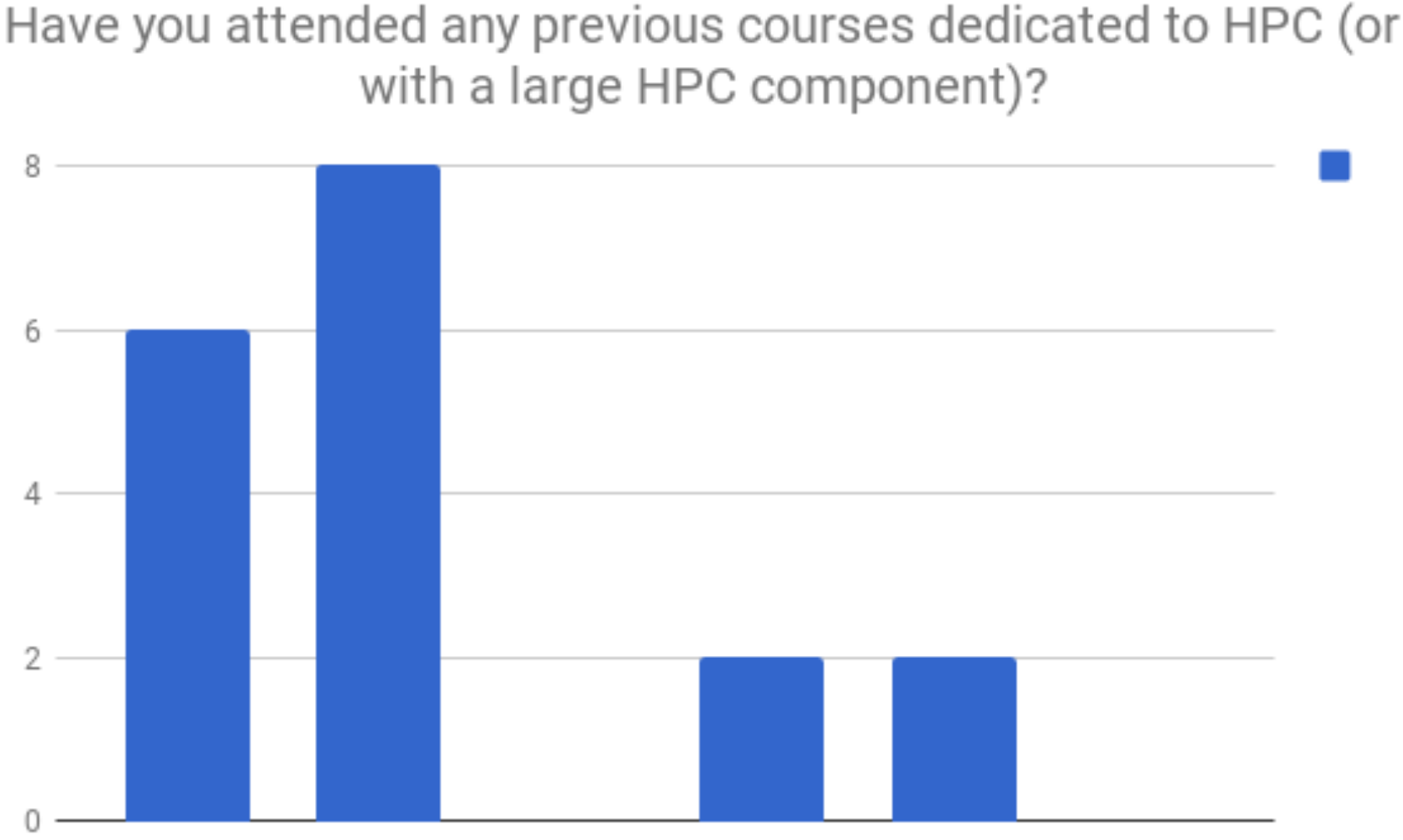
Sticky dots

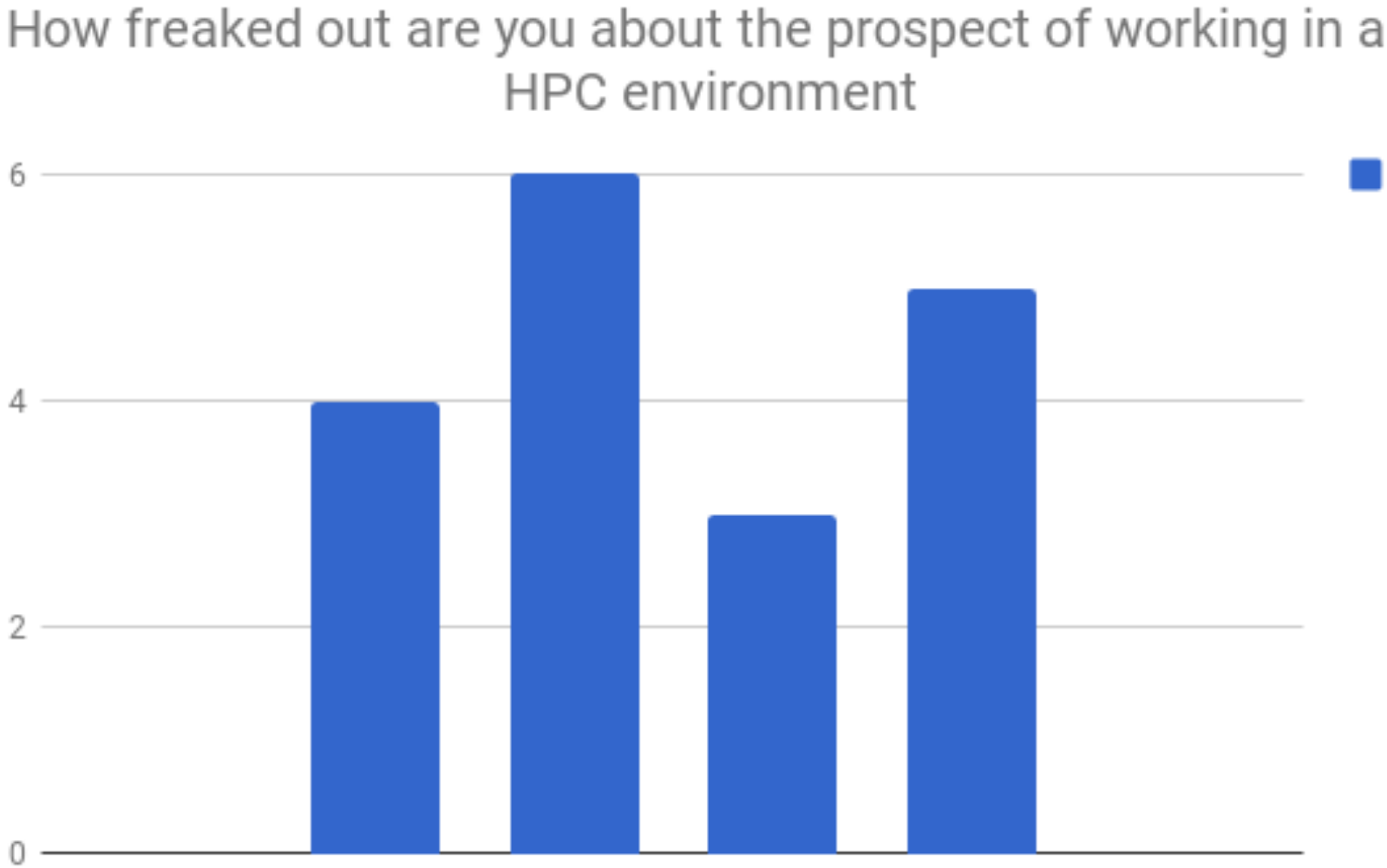
Have you ever been to Edinburgh before?

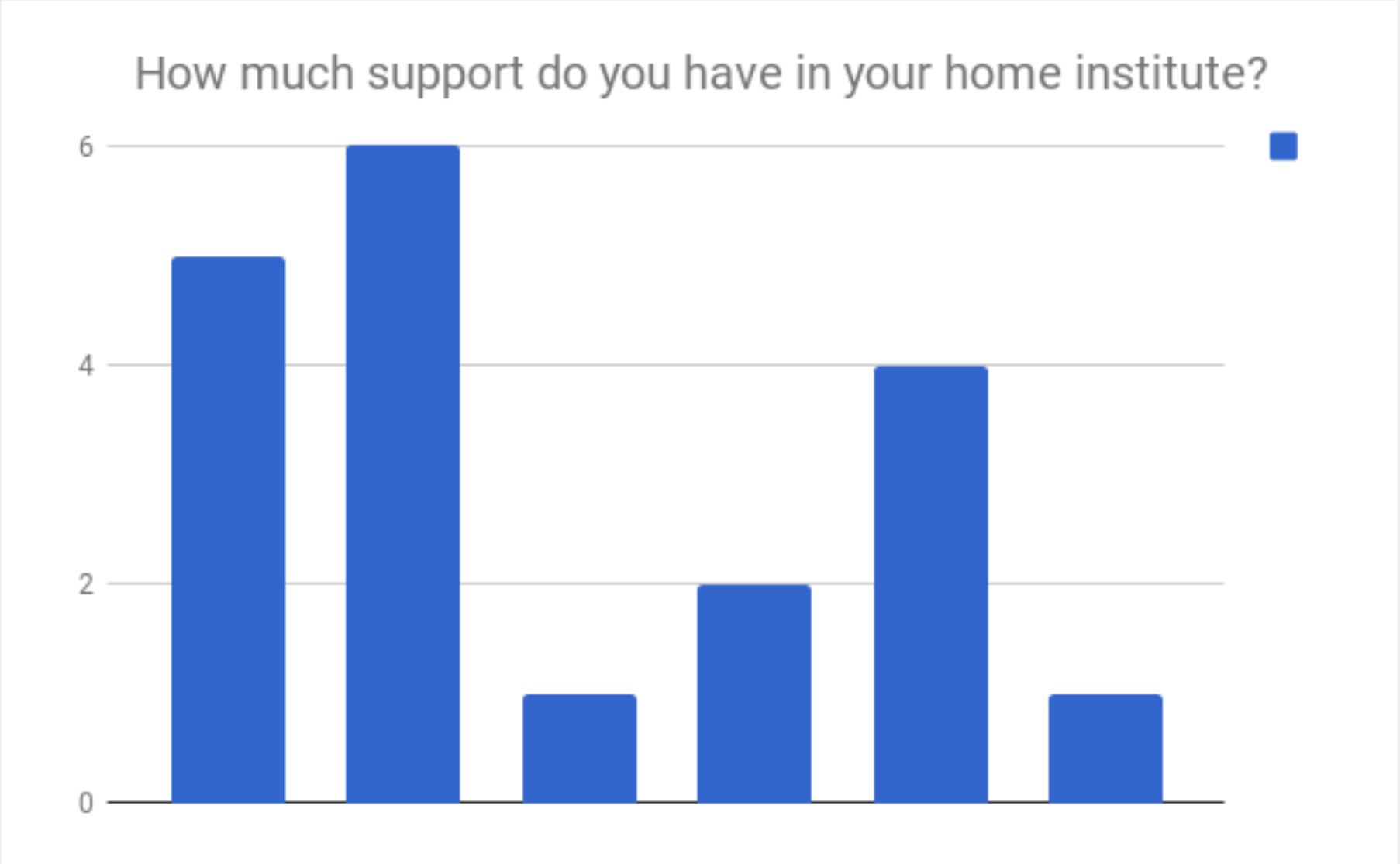
1 – No first time ever, London is the furthest North I generally go
2
3
4
5 – I grew up here
* – Wildcard - Where is Edinburgh, aren't we in London?

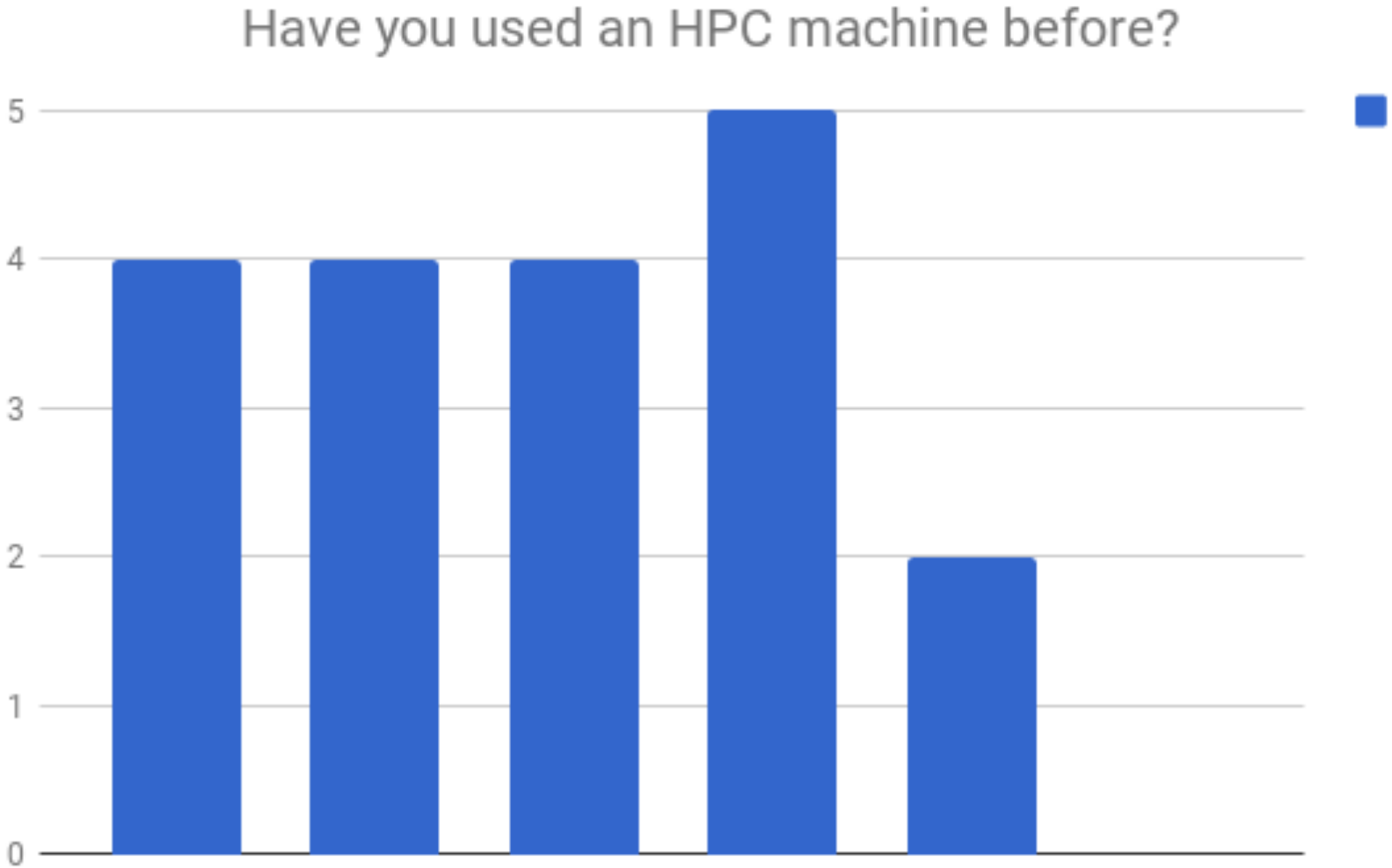

How familiar are you with linux?
8
6
4
2
0
1
6
8
4
1
0

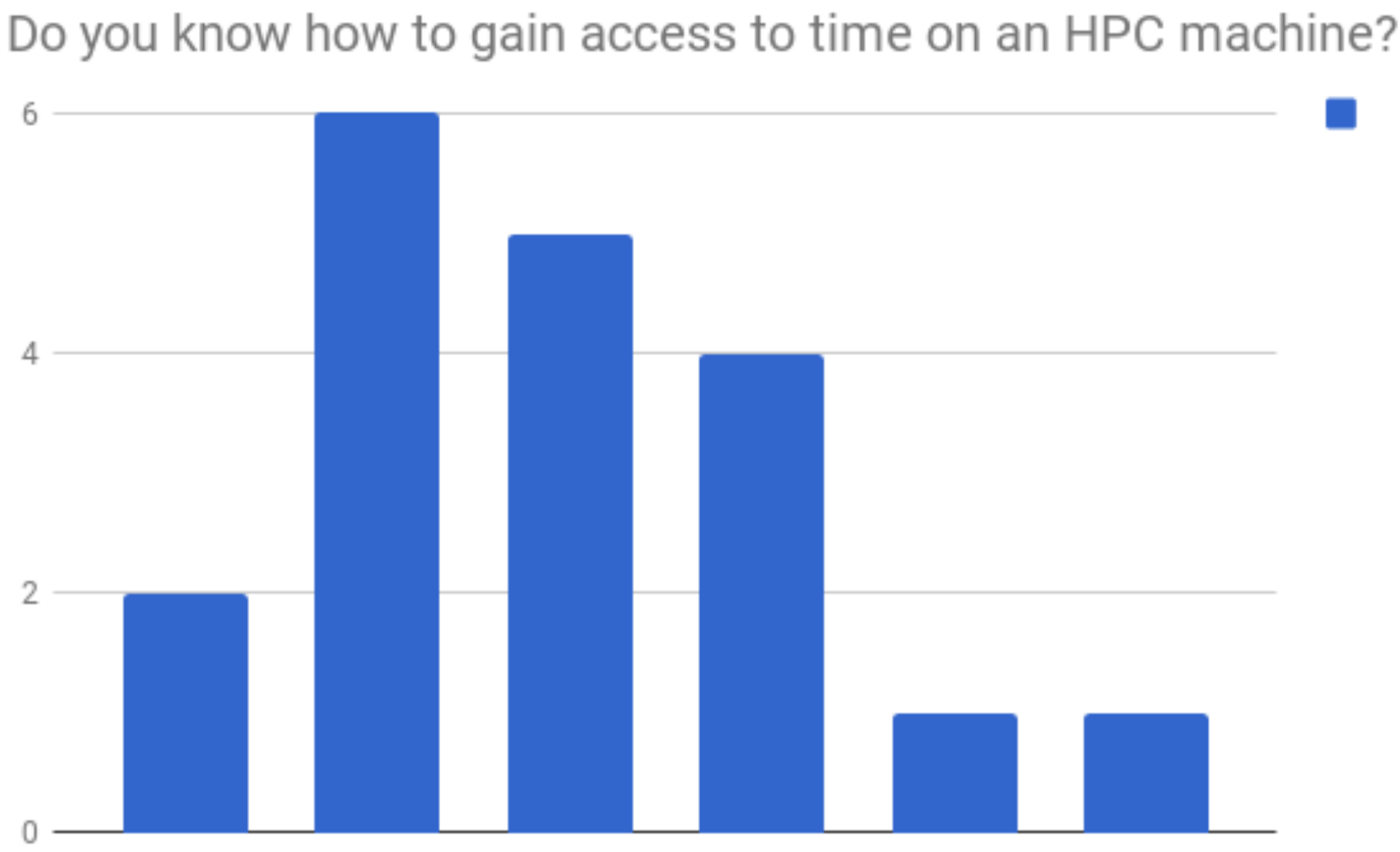

What is you programming expertise?
8
6
4
2
0


Have you attended any previous courses dedicated to HPC (or with a large HPC component)?
8
6
4
2
0


How freaked out are you about the prospect of working in an HPC environment
6
4
2
0

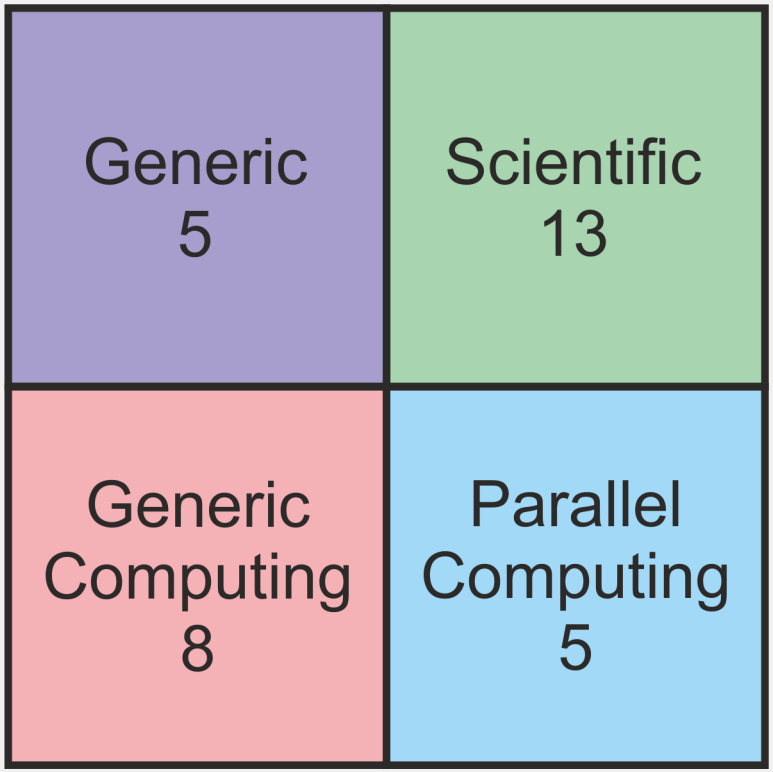

How much support do you have in your home institute?
6
4
2
0


Have you used an HPC machine before?
5
4
3
2
1
0


Do you know how to gain access to time on an HPC machine?
6
4
2
0

BioExcel Competency Profile

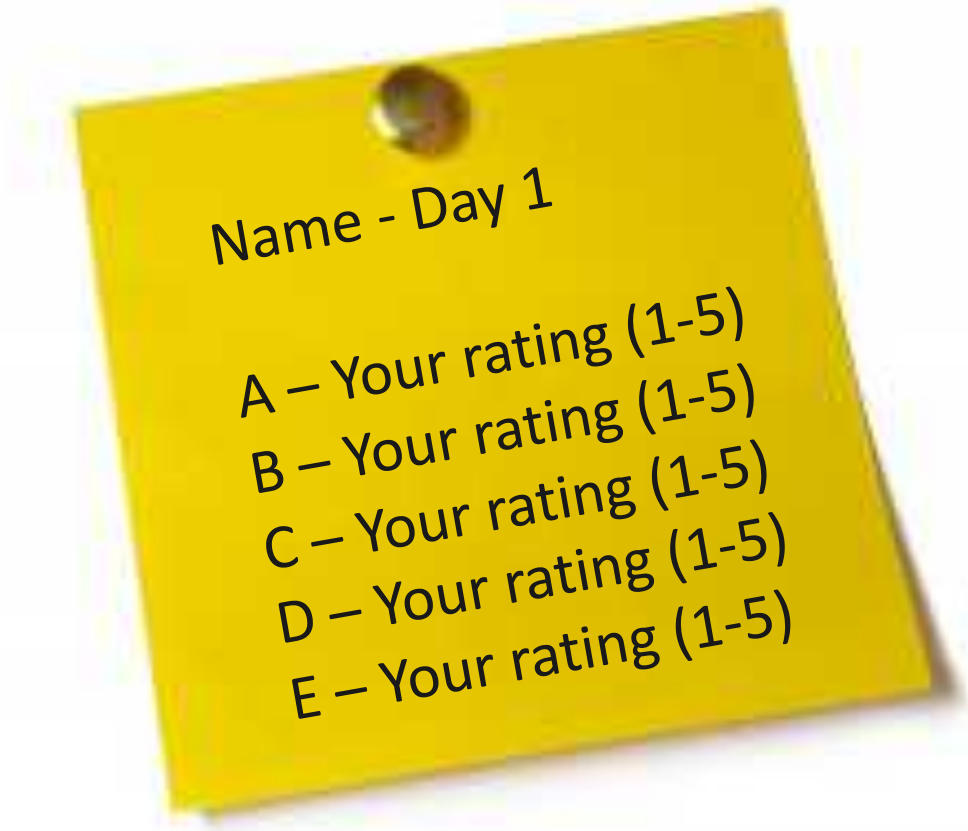
Group related competencies together into areas



Parallel Computing Competencies

- Assess computational workflow systems and their potential benefits
- Apply knowledge of batch system
- Write computer programs that can run on a parallel computer
- Assess advantages and limitations for deploying, executing and optimising computations in a cloud/grid/HPC environment
- Apply knowledge of performance profiling to measure suitability of computing platforms

Activity - Benchmarking

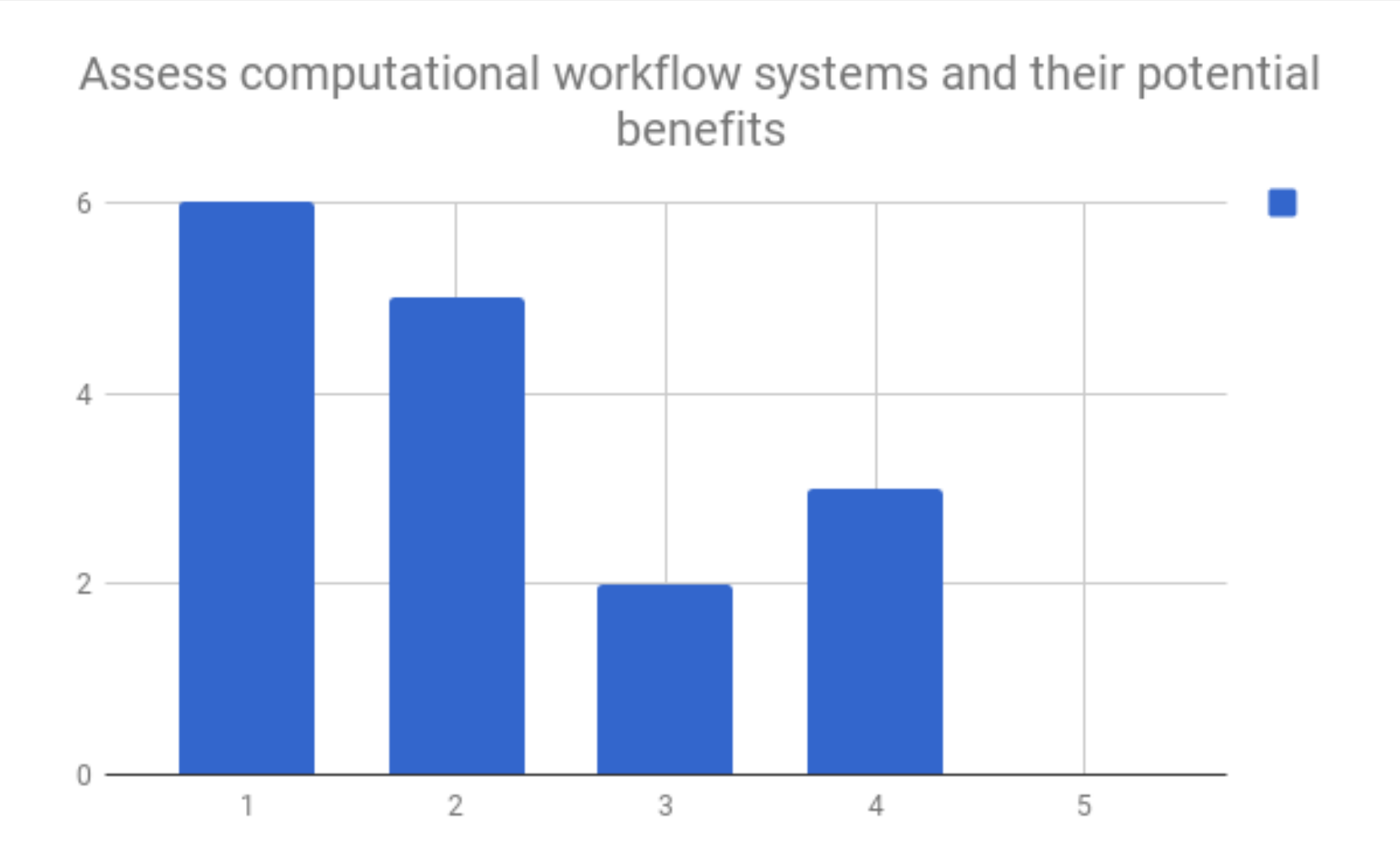


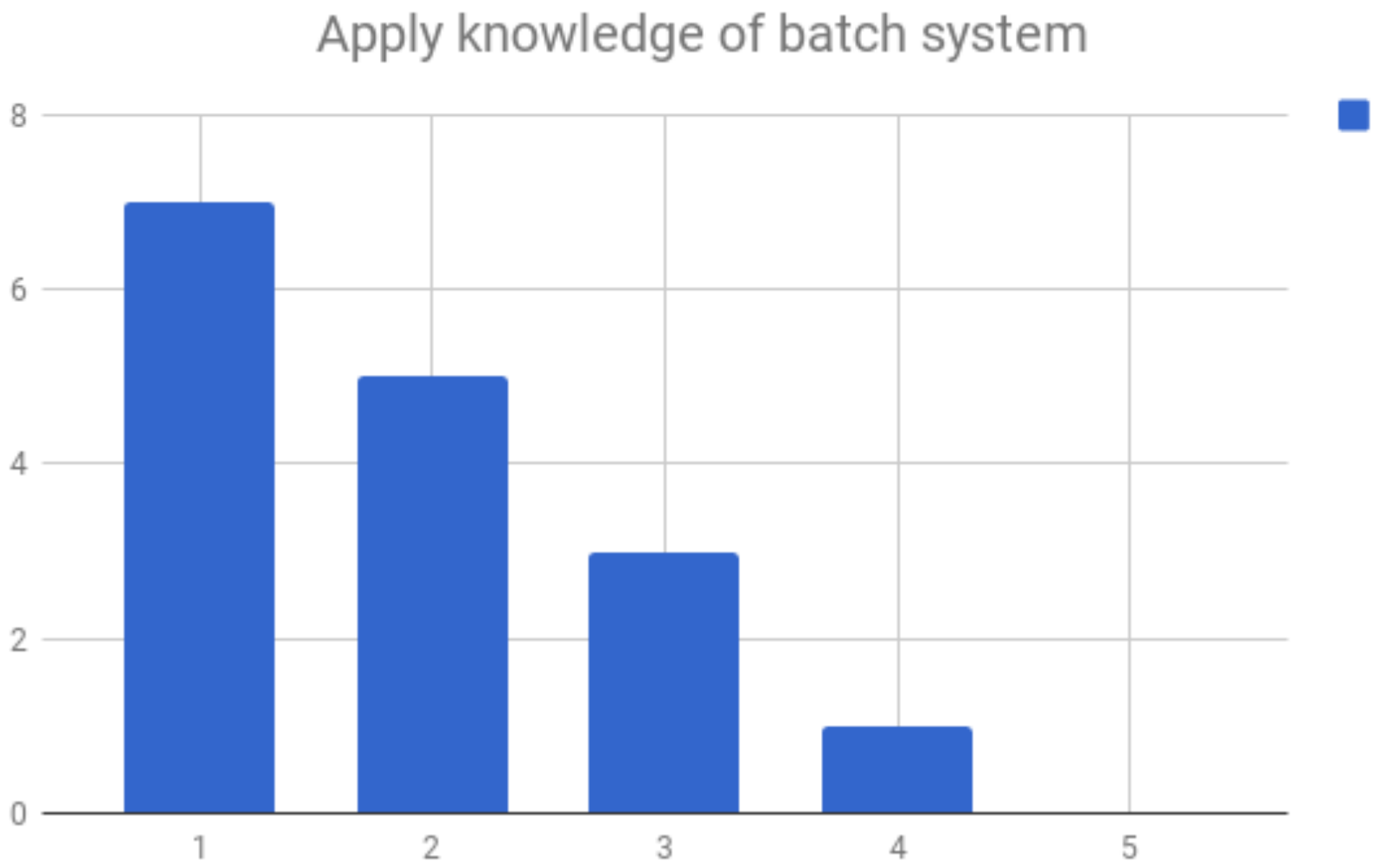
How are your skills developing over time?

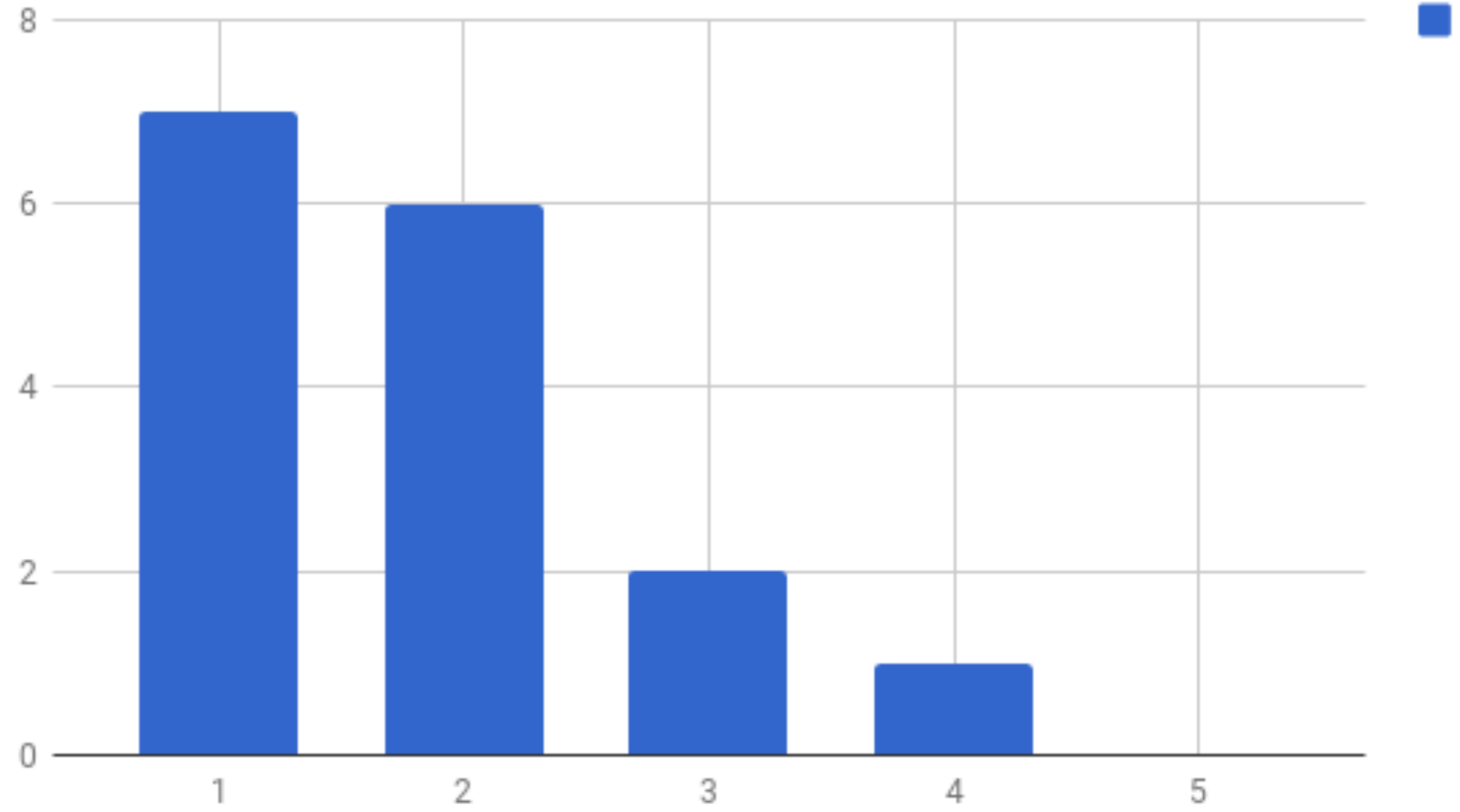
- Pre-course
- Post-course
- 6 – 12 months

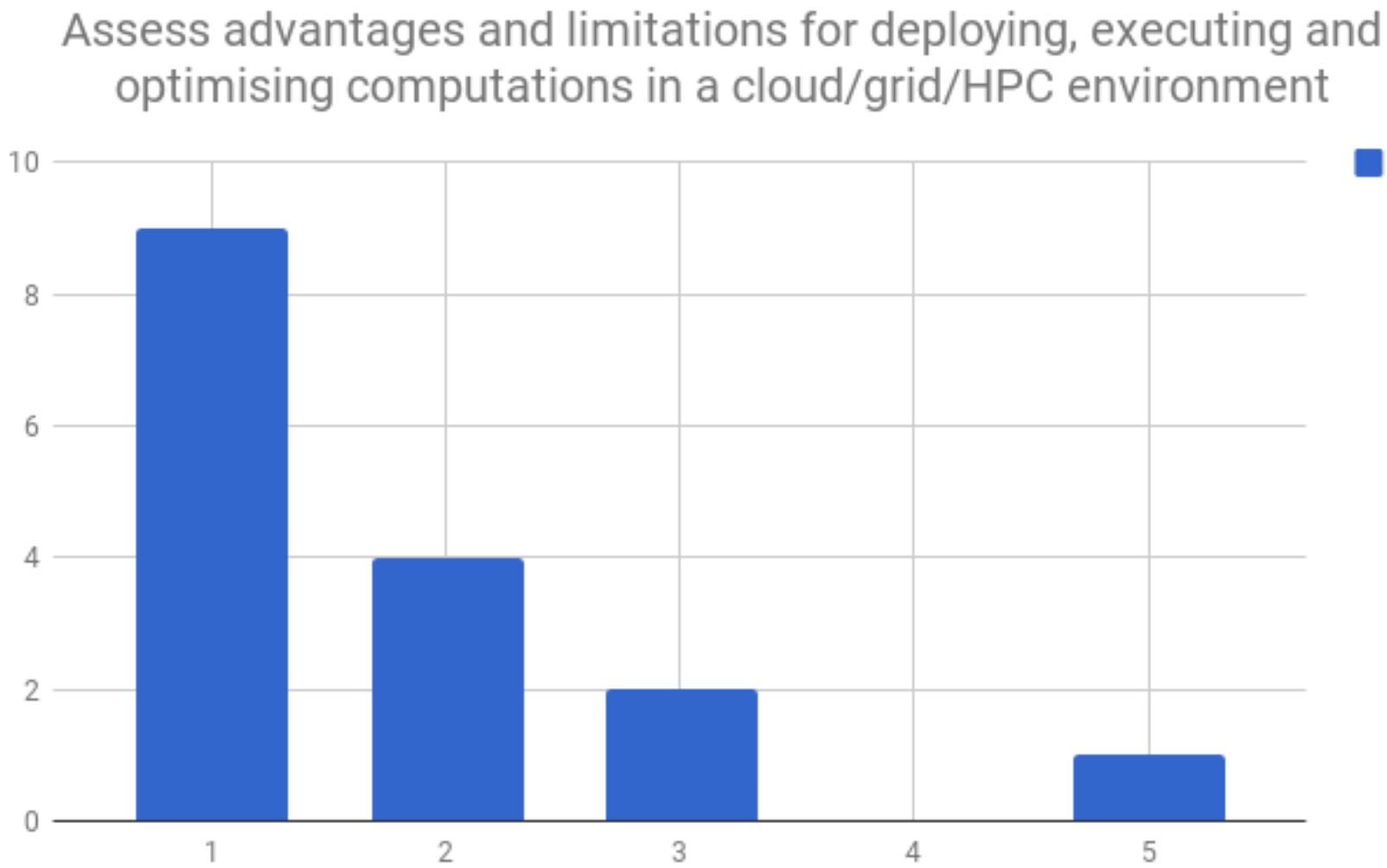
Note:

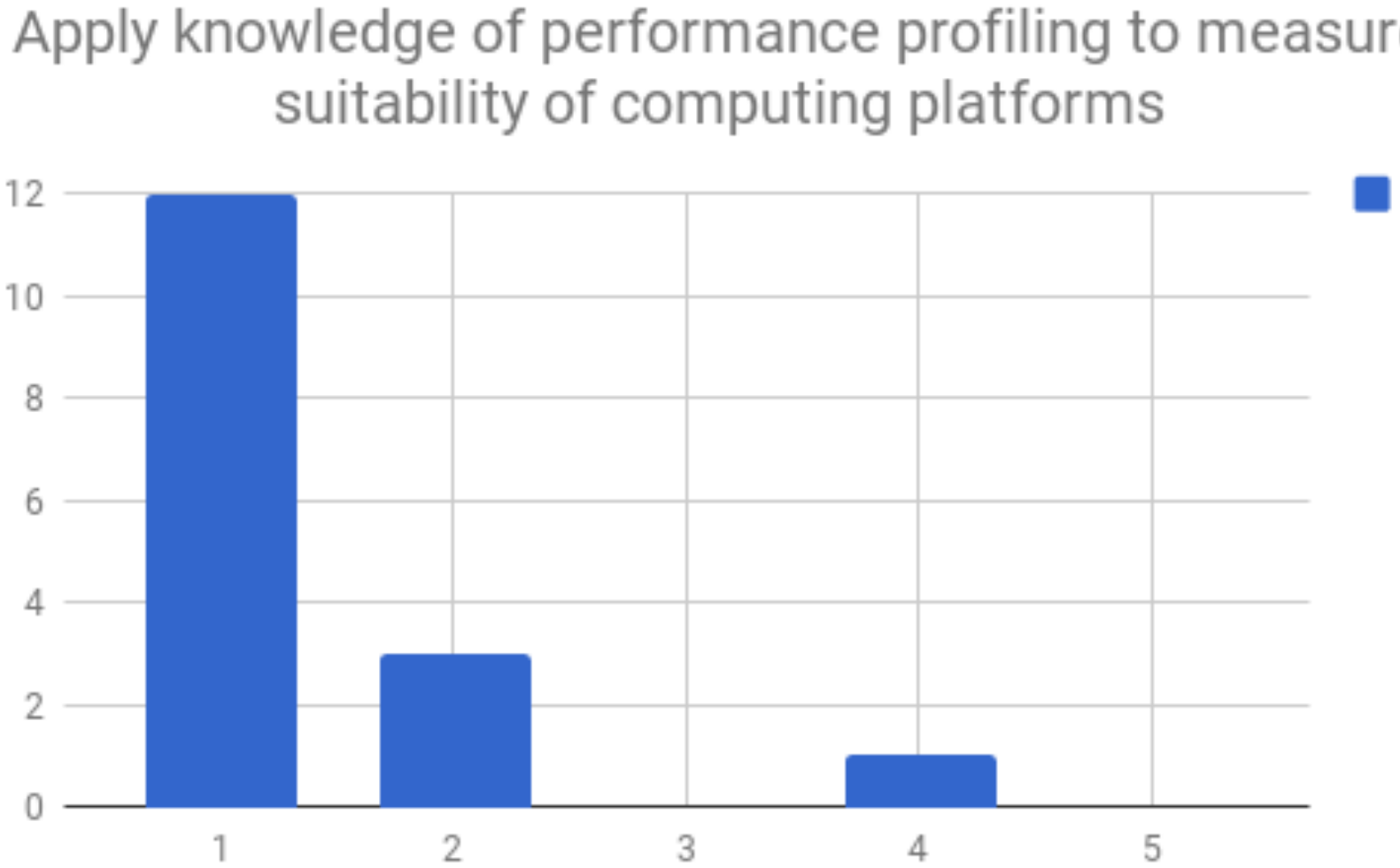
- Survey in email also rates generic computing Competencies
- Link to full profile


Assess computational workflow systems and their potential benefits
6
4
2
0
1
2
3
4
5


Apply knowledge of batch system
8
6
4
2
0
1
2
3
4
5


Write computer programs that can run on a parallel computer
8
6
4
2
0
1
2
3
4
5


Assess advantages and limitations for deploying, executing and optimising computations in a cloud/grid/HPC environment
10
8
6
4
2
0
1
2
3
4
5


Apply knowledge of performance profiling to measure suitability of computing platforms
12
10
8
6
4
2
0
1
2
3
4
5

Competency rating after the course

Please fill following survey

- Generic Computing Competencies (8)
- Parallel Computing Competencies (5)

https://www.surveymonkey.com/r/HPCBioExcel

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Thank you!