

Skills needed for a vibrant EU space community

Space is an innovative and constantly evolving sector. To ensure European competitiveness, professional skills must be constantly developed, adopted and improved. Through a series of surveys (71 respondents in total) and desk research, STARS*EU has identified the skills required for space R&I (universities, space agencies, RTOs & others) and the industry.

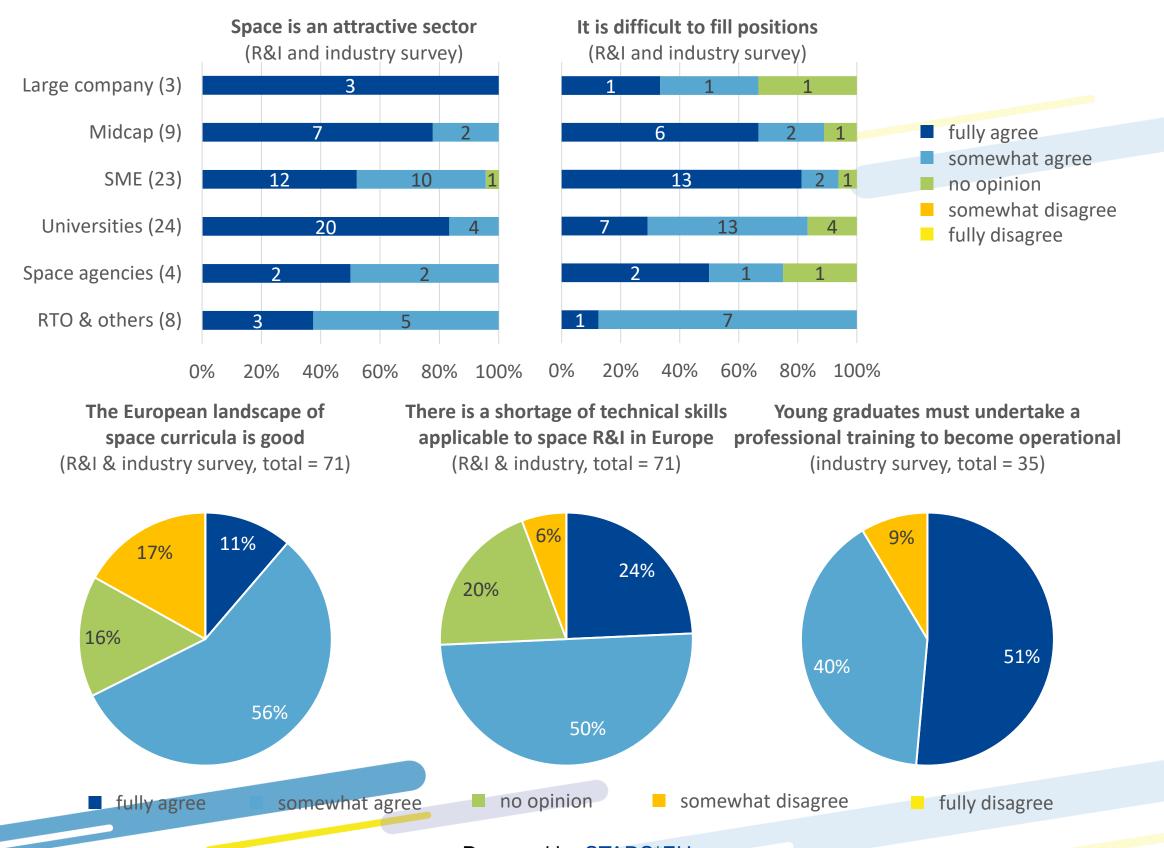
The results of the skill needs analysis show that:

 Space is an attractive sector, but positions are hard to fill;

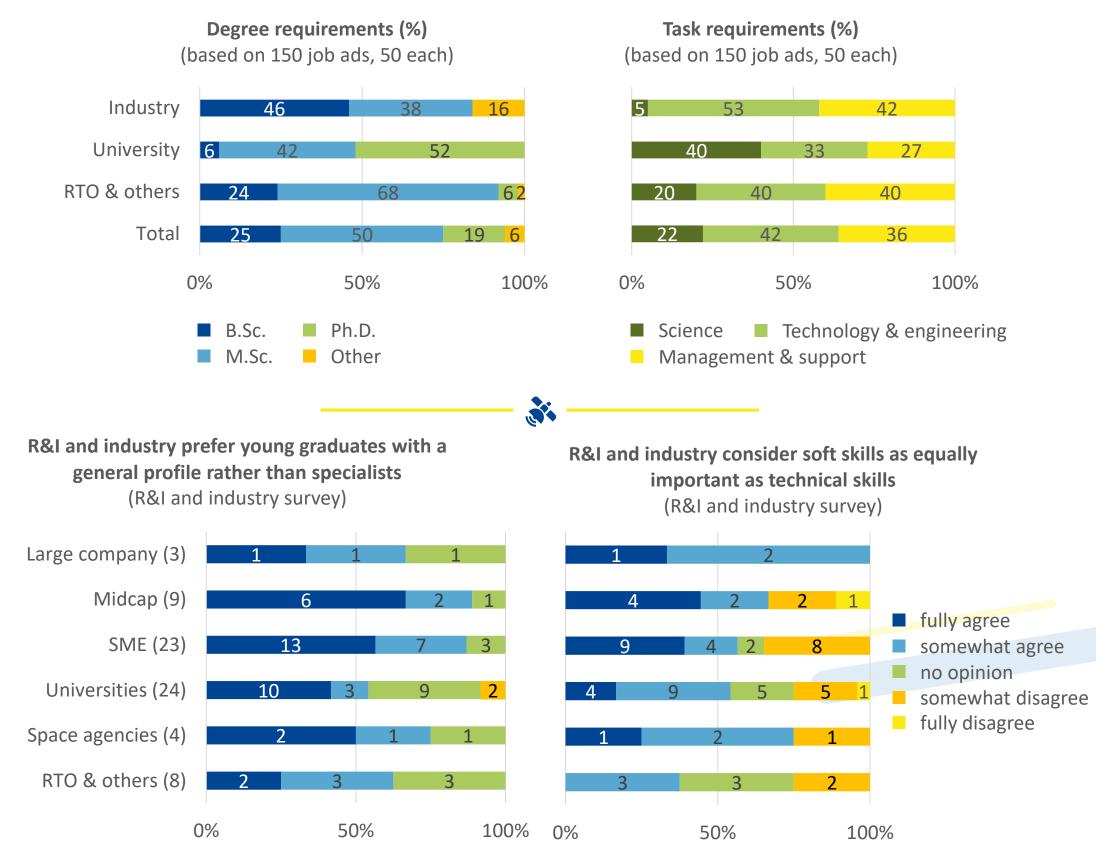
- The landscape of space curricula is good, but there is a shortage of technical skills;
- R&I requires a higher academic profile than industry;
- The most sought-after skills are science, technology and engineering, but management & support skills remain important;
- Soft skills are as important as technical skills;
- The European space domain is still dominated by men.



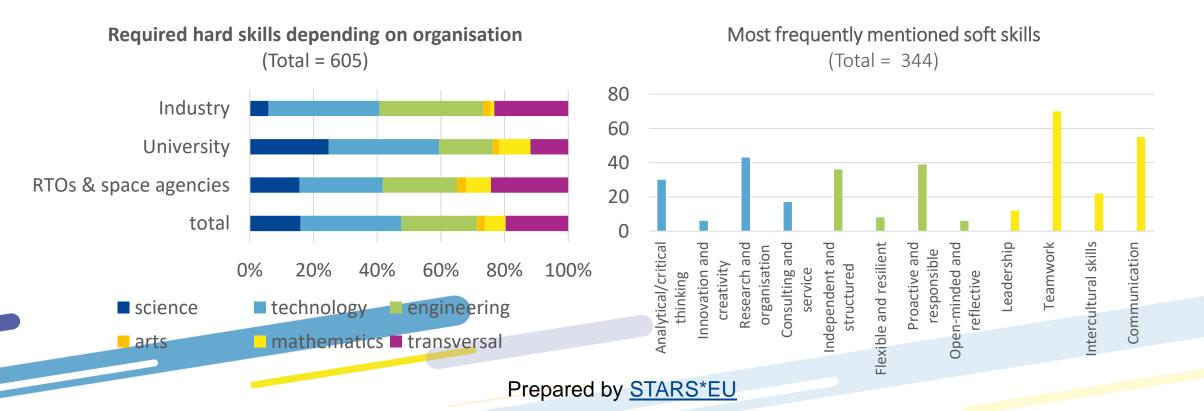
The space community agrees that space is an **attractive domain for young professionals**, both in research and in industry. However, despite the majority of respondents considering the European space curricula landscape as good, it **is difficult to fill positions**. There is a shortage in technical skills and to become operational in the industry, 91% of graduates require additional training.



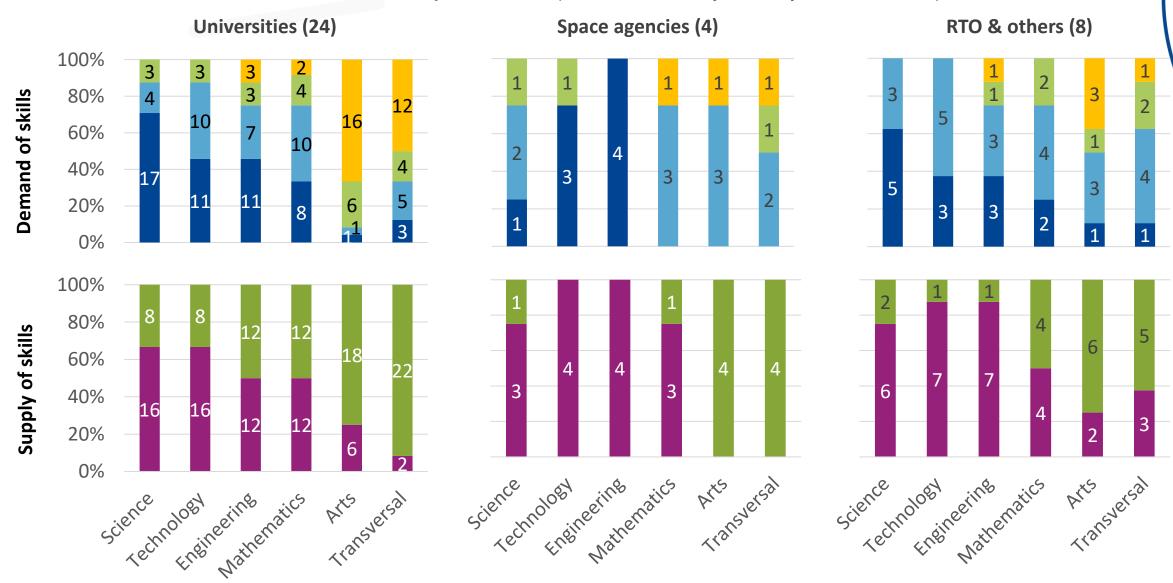
Degree & task requirements vary between organisations. Universities predominantly require Ph.D. degrees. Research institutions & industry look for M.Sc. degrees. On the one hand, science skills are important at universities. On the other, research institutions & industry, technology/engineering & magement/support are more valuable. Furthermore, **soft skills are considered equally important as technical skills** by industry and the R&I community.



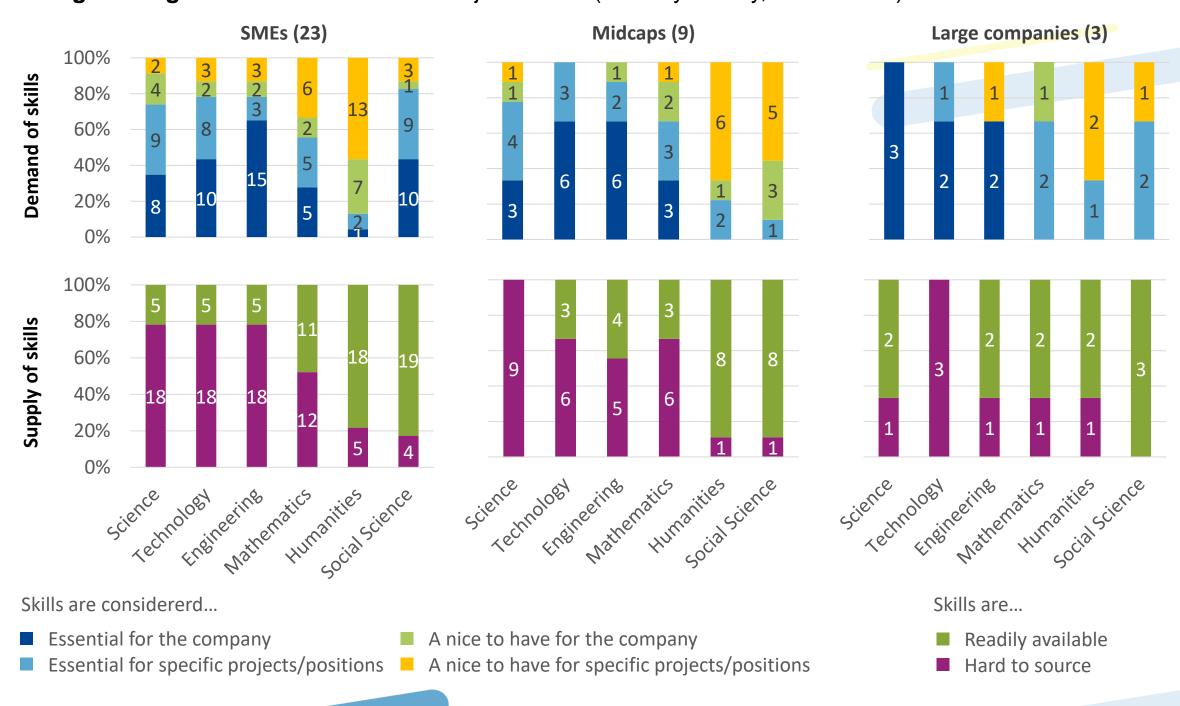
Job ad analyses suggest that the most frequently required **hard skills** are **technology** (32%) and **engineering** (24%). Among the **soft skills**, **teamwork** and **communication** skills are in high demand, along with an **independent**, **proactive** and **responsible** way of working.



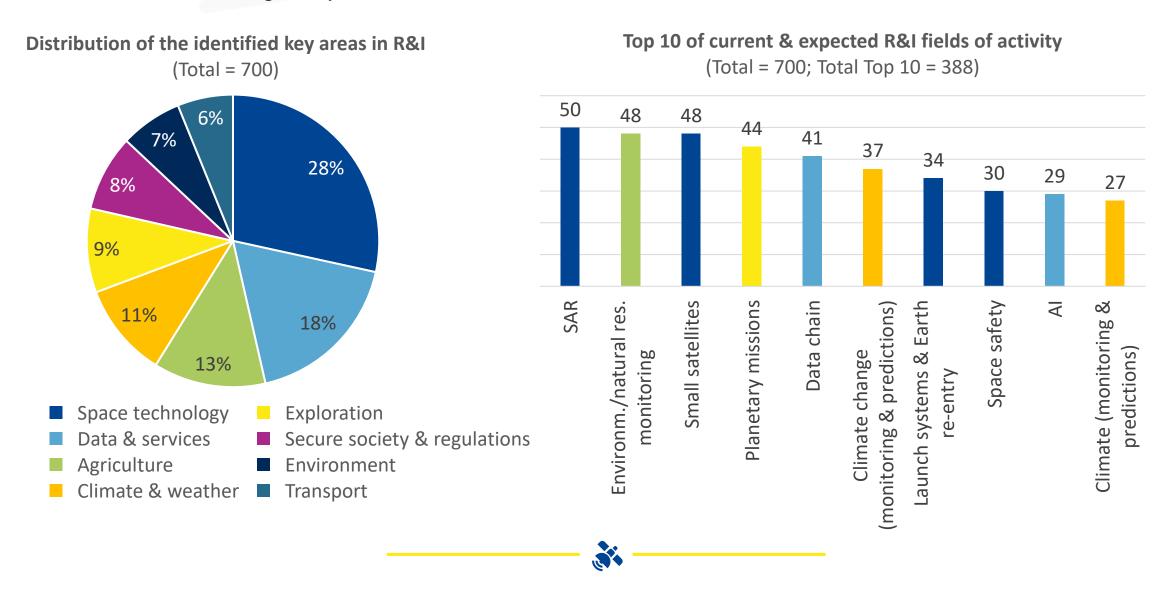
The most sought-after skills in the R&I community are **science**, **technology** & **engineering**. These skills are **hard to source** on the job market (R&I community survey, 36 answers).



The results are similar for the space industry. The most sought-after skills **science**, **technology** & **engineering** are **hard to source** on the job market (industry survey, 35 answers).



Eight key areas in space R&I were identified. The most important R&I area is **space technologies**, **with data & services ranked second**. The **ten most important R&I fields of activities** within the eight key areas are shown below.



Gender equality: Although the number of women working in space is increasing, the is still dominated by men. European space industry employees are **mostly male (75%)**. However, job ad analyses suggest that most employers consider **gender equality** to be **important**.

