

Practical Guide to Scientific Routine for Students



The research cycle



Literature review

1. Search

*(by topic,
by citing papers, ...)*

find background information:

- *what has already been done?*
- *what are the surrounding issues?*

before developing a research question



Google Scholar

<https://scholar.google.com>

SJR

Scimago Journal & Country Rank

<https://www.scimagojr.com/journalrank.php>



WEB OF SCIENCE™

<https://clarivate.com/webofsciencegroup/>

Scopus

www.scopus.com

2. Question relevance

*(journal quality,
research team,
affiliation, ...)*

3. Reference archiving

(Zotero, Mendeley, Papers, ...)



MENDELEY



Papers

4. Studying

Proposals writing

List of agencies:



Horizon 2020 Framework Programme ([open and upcoming calls](#))
(ERC, ERA, Marie Curie Actions, ...)



<https://www.apvv.sk/>



<https://www.minedu.sk/vedecka-grantova-agentura-msvvas-sr-a-sav-vega/>



<http://www.prace-ri.eu/prace-resources/>

Proposals writing

Step 1: **Define the problem**

- Start strong
- Use facts, not opinion

Step 2: **Present your solution**

- Anticipate questions and objections.
- Present the solution's larger impact.

Step 3: **Define your deliverables and success criteria**

- Include a delivery date
- Your solution must be SMART (specific, measurable, achievable, realistic, and time-bound)

Step 4: **State your plan or approach**

- Introduce project strategies
- Explain how problems will be addressed

Step 5: **Outline your schedule and budget**

- Provide as much detail as possible
- Be concrete. Don't guess

Step 6: **Tie it all together**

- Your proposal should read like a book
- Refrain from introducing anything that doesn't fit
- Make sure all project proposal elements are present

Step 7: **Edit/proofread your proposal**