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IOCB PRAGUE

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# MSCA PF @ IOCB



Image: gearingroles.eu

With thanks to Jakub Zeman (MUNI) for background materials.

**Project Office | 1 June 2022**

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# MSCA PF – the basics

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- **Individual research project:** researcher and senior colleague as supervisor
- Recipients: **postdocs** (must have defended thesis, max 8 years after PhD), useful to gain research experience abroad or to return to home country after research abroad
- Should involve **international, interdisciplinary and intersectoral** cooperation
- Two-way knowledge transfer **researcher – host:** research stay should be beneficial
- Focus on training in **both** scientific skills and transferable skills
- Optional **secondment**, optional **non-academic placement** at the end of fellowship
- **Dissemination** and **communication** integral part of project

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# MSCA PF – new for 2022

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- Proposals evaluated at less than 70% **cannot be resubmitted** in the next call (same researcher, same host institution)
- 2021: max 8 years full time research experience from PhD, PhD must be defended by the deadline

# MSCA PF – Funding and Tenders Portal

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Grant & Audit Management Services will be unavailable on Monday 31.05.2022, between 07:30 and 08:10 CET.

## MSCA Postdoctoral Fellowships 2022

TOPIC ID: HORIZON-MSCA-2022-PF-01-01

Grant

### General information

Topic description

Destination

Conditions and documents

Partner search announcements

Submission service

Topic related FAQ

Get support

Call updates

Go back

### General information

Programme

Horizon Europe Framework Programme (HORIZON)

Call

MSCA Postdoctoral Fellowships 2022 (HORIZON-MSCA-2022-PF-01)

See budget overview

Type of action

HORIZON-TMA-MSCA-PF-EF HORIZON TMA MSCA Postdoctoral Fellowships - European Fellowships

Type of MGA

HORIZON Unit Grant [HORIZON-AG-UN]

Open for submission

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Top

### Start submission

To access the Electronic Submission Service, please click on the submission-button next to the **type of action** and the **type of model grant agreement** that corresponds to your proposal. You will then be asked to confirm your choice, as it cannot be changed in the submission system. Upon confirmation, you will be linked to the correct entry point.

To access existing draft proposals for this topic, please login to the Funding & Tenders Portal and select the My Proposals page of the My Area section.

Please select the type of your submission:

☒ HORIZON TMA MSCA Postdoctoral Fellowships - European Fellowships [HORIZON-TMA-MSCA-PF-EF], HORIZON Unit Grant [HORIZON-AG-UN]

☐ HORIZON TMA MSCA Postdoctoral Fellowships - Global Fellowships [HORIZON-TMA-MSCA-PF-GF], HORIZON Unit Grant [HORIZON-AG-UN]

Start submission

Need help?

Online  
interlude...

# Activity: who can help you with proposal preparation?

- List as many people (and their roles) as you can who might be able to help you
- Start with logical options... (map your networks)...
- ...but include also unlikely ones, use your imagination!
- How specifically can they be helpful - what can they do for you?
- What aspects of your proposal could they possibly “improve”?
- How “accessible” are they? How can you approach them?
- How can you “manage” them?

Credit: Jakub Zeman

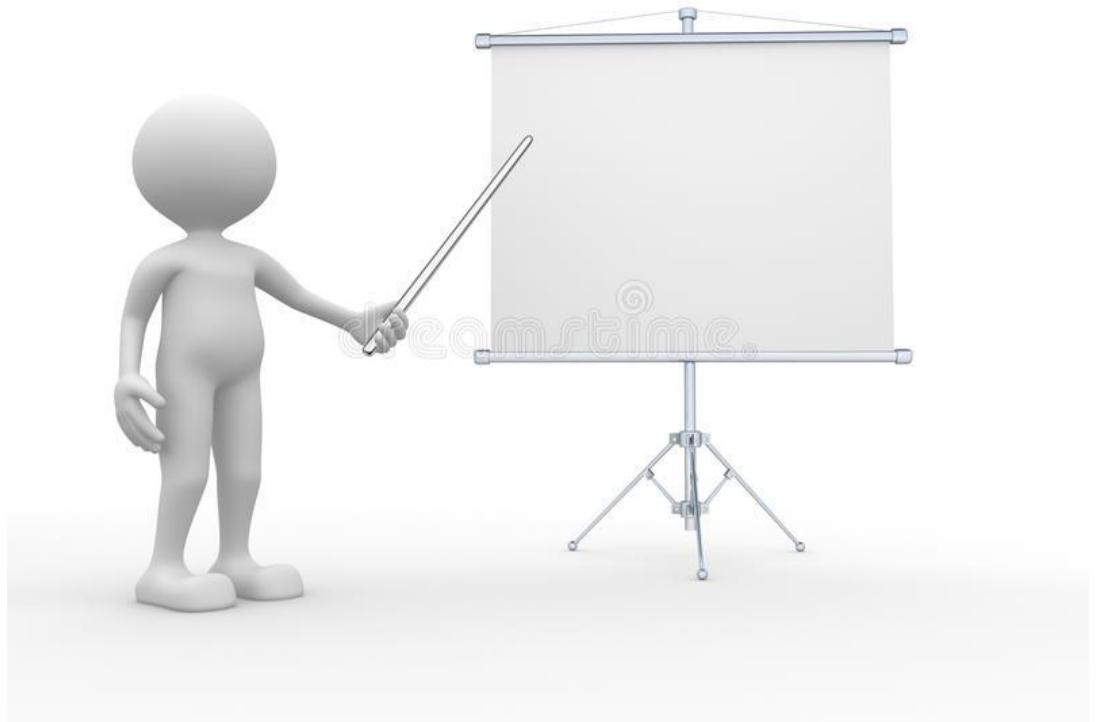
c.15-20 min



# MSCA PF – CV structure

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- What are the key parts of the academic CV?



## **CV of the researcher (indicative length: 5 pages)**

Any information provided in Parts A and B of the proposal should be fully consistent. Always mention full dates (using format: dd/mm/yyyy). The CV should include the standard academic and research record. Any research career gaps and/or unconventional paths should be clearly explained.

At a minimum, the CV should contain:

- a) The name of the researcher;
- b) Professional experience (most recent first, with exact dates in format dd/mm/yyyy);
- c) Education, including PhD award date (most recent first, with exact dates in format: dd/mm/yyyy).

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# MSCA PF – CV structure

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The CV should include information on:

**Publications** in peer-reviewed scientific journals, peer-reviewed conference proceedings, and/or monographs (they are expected to be open access either published or through repositories) and **other outputs such as data, software, algorithms significant for your research path** (they are expected to be open access in appropriate repositories to the extent possible; they should be accompanied by a very short qualitative assessment of their scientific significance and **not by the Journal Impact Factor**);

**Invited presentations** to internationally established conferences and/or international advanced schools;

**Organisation of international conferences**, including membership in the steering and/or programme committee;

Research expeditions led by the researcher;

Granted **patent(s)**;

Examples of **participation in industrial innovation**;

**Prizes and Awards**;

**Funding** received so far;

**Supervising and mentoring** activities;

Other items of interest.

Example...



# Activity: CV swap

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- Swap CV and comment on which parts of the structure are missing in colleague's CV

c.15 min



- Homework: modify CV according to the required structure



Credit: posterlounge

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# Activity – State of the Art

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- What is the current State of the Art (SOTA) in the field?  
Where is the boundary between the SOTA and your research project?

# Activity: State of the Art

Who defines the state of the art in your field? Do you know the key labs in the relevant field?

*Make a scheme (mind map) of the leading labs (are you sure you know them “all”?)*

*Is the hosting lab there? Where exactly?*

*Assess their acknowledged relevance, order them*

*Can you identify any links between you/your PI and the best labs in the field?*

*Which ones do you **like**?*

*What is the character of relations among the labs? (Competition in terms of hypothesis/theories, in terms of pursuing the same line; collaboration, etc...)*

*Do the same for the **leading hypothesis/theories***

*Think about the SOTA dynamically – recent developments and pace of changes, factors of change – any implications for your research idea?*

*Any collaborations, or recent convergences / divergences, interplays*

Credit: Jakub Zeman

20 min



# Objectives & Work-packages

**S.M.A.R.T.** principle – **S**pecific – **M**easurable – **A**chievable – **R**ealistic – **T**imed

**Objectives = shorter term actions to achieve an overall goal**

Overall goal = the „big challenge“; the groundbreaking idea

Several specific objectives = the „core“ of your proposal

**Work-package (WP) = to define the steps (tasks) necessary for completion of the work**

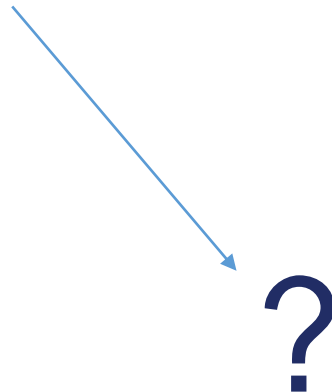
Task - activity that needs to be accomplished within a defined period of time

Number of WPs? – relation of objectives and WPs should be clear

(ideally – 1 objective = 1WP)

# Activity: Objectives and project structure

- *Define the overall goal of the project*
- *Define specific objectives (not more than 3)*
- *Define Work-packages and their relation to the objectives*
- *Try to go one level down and define at least some „tasks“ of the WPs*
- *This scheme might be well used in section 3., and the information for drawing of your Gantt chart*



15-20 min



Credit: Jakub Zeman

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# Gantt Chart

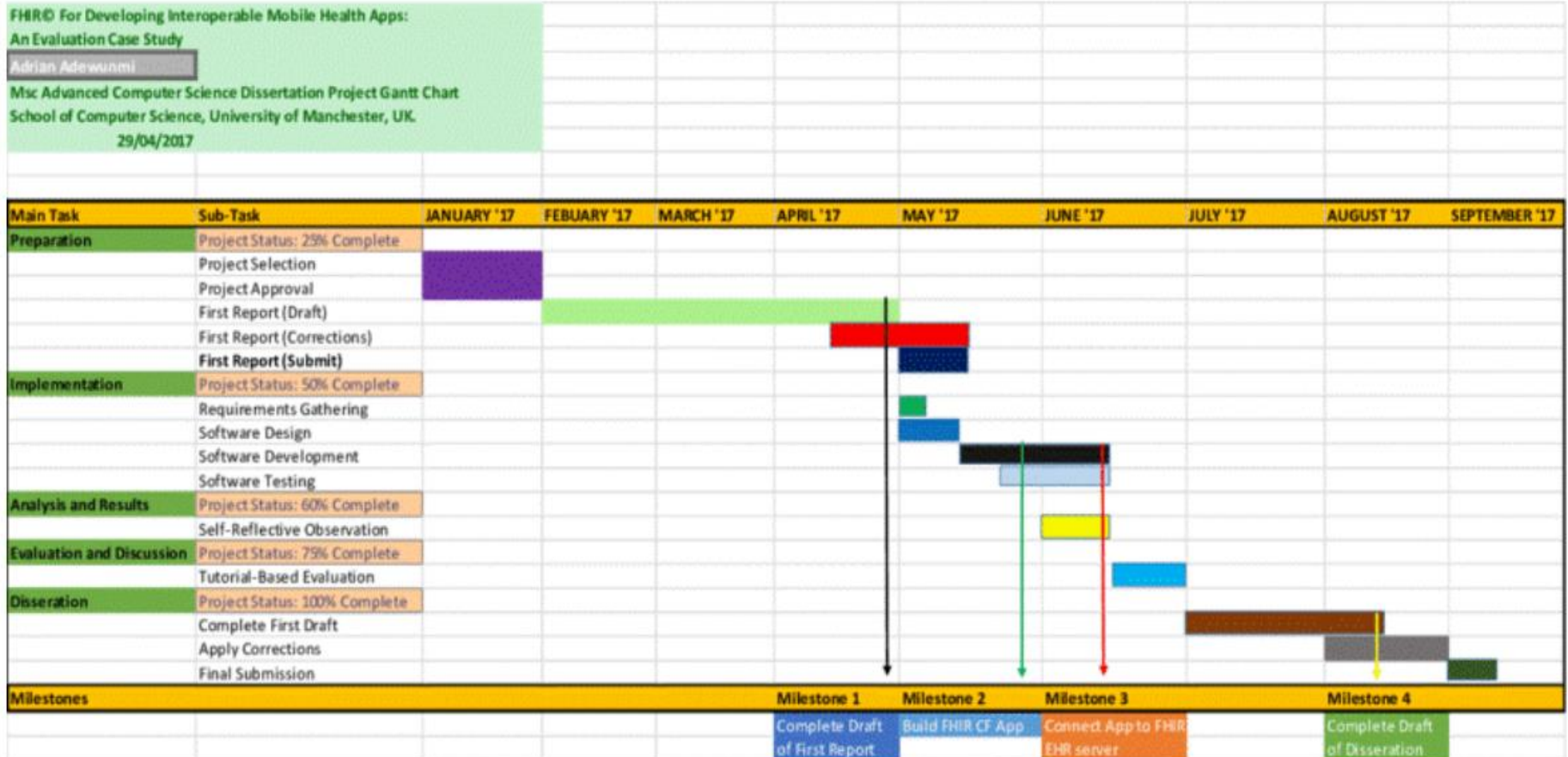
## What is Gantt Chart?

- timeline of project activities
- useful in planning a project and defining the sequence of WPs, tasks, deliverables, milestones

## Research GCH – basic structure:

- Work packages
  - recommendation: 1 WP for management and transferable skills, 1 WP for dissemination & communication
- Tasks
- **Milestones** = checkpoints in the project, help to chart progress throughout the course of the project
- **Deliverables** = outcomes of project that is produced during the project's course (publications, conference/lectures, public outreach activities)

# Gantt Chart for preparing MSc thesis



Source: researchgate.net



Activity/Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
T1.1. Code compilation and testing		M1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WP1 T1.2. [redacted] based methods	1	2						M2	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
T1.3. Multireference methods	1	2										M3	13	14	15	16	17	18	19	20	21	22	23	24
WP2 T2.1. Workflow optimization				M4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
T2.2. Production [redacted] work	1	2	3	4						M5	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WP3 T3.1. [redacted] calculations and analysis	1	2	3	4	5	6	7	8							M6	16	17	18	19	20	21	22	23	24
WP4 T4.1. [redacted] description of QI	1	2	3	4	5	6	7	8	9	10	11	12												M7
WP5 T5.1. High-throughput screening	1	2	3	4	5	6	7	8	9	10								M8	19	20	21	22	23	24
T5.2. Follow-up on most interesting systems	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18						M9
WP6 Management	P	M1							P												P			
WP7 Dissemination activities			C1			O1	O2				O3			C2			C3	O1	O2		L			
Publications	1	2	3	4	5	6	7	8	9	10	11	D1	13	14	D2	16	17	18	19	20	21	22	23	D3,D4

• *Deliverables: Publications:* Project results will be disseminated in four publications in high-impact journals: **D1** (resulting from **WP1**) in month 12; **D3** (**WP2** and **WP3**) in month 15, **D3** (**WP4**) and **D4** (**WP5**) in month 24.

*Conferences and lectures:* [redacted] in June 2022 (**C1**); in winter 2023-2024, he will give a lecture (**L**) at the Institute of Organic Chemistry and Biochemistry of the CAS (Czechia); he will participate in a computational chemistry-oriented conference (**C2**, after completing **D1**), and the *Harnessing the Power of Data* ACS meeting (**C3**) in August 2023. *Public outreach:* (a) [redacted] will participate in the *European Researchers' Night* (**O1**, September) and *Oxfordshire Science Festival* (**O2**, October) events, as well school visits organized by the host institution (**O3**); (b) He will write a popular science article on ring currents and energy delocalization (**O4**). *Management:* Proposals for computational resources will be submitted by month 2 (included in **M1**). Technical reports will be written every six months, oral presentations will be given every four months. A Personal Career Development Plan (**P**; see section 1.3.2) will be created in month 1, and revisited in months 9 and 21. The work plan is summarized in the Gantt chart.

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# Homework

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**Abstract** – prepare abstract of your intended project and send to [projectoffice@uochb.cas.cz](mailto:projectoffice@uochb.cas.cz)

**Gantt chart** – prepare draft for next session (14<sup>th</sup> June) so we can work with it there

(CV – updated version can be commented by us individually)

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**Project Office (Blanka Collis/  
Jitka Šilerová)**

1 June 2022

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**Thank you  
for your attention.**

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