

The Change Project

What is the change project?

The change project is a series of coaching tools to help Early Career Researchers (ECRs; Doctoral Students and Early Career Research Staff) expand their career thinking beyond the academic context, nudging them to consider and experiment with different career ideas.

Who is this tool kit for?

This tool kit is for anyone at Imperial who supports ECRs with their career development. This includes Principal Investigators (PIs), Professional Services and other ECRs in a peer support capacity.

When could it be used?

It will be particularly useful during the annual review conversation (ARC), as ECRs approach the end of their contract and/or within the context of a mentoring relationship.

The ten tools

1. Exploring career success
2. Career planning
3. Challenging the the sunk cost bias
4. Acknowledging grief
5. Values
6. Identifying skills for jobs
7. Skills evaluation
8. Designing a new role: Keep, Lose, Add
9. Career options
10. Low-risk experiments

Exploring Career Success

Views of career success are shaped by many factors including family, friends and colleagues. It is worth exploring such factors with ECRs as a starting point for thinking about career change.

This tool helps ECRs think about how their view of career success might be shaped by social context.

It gives them an insight into how their views about career success might help or hinder their career progression.

Tool 1

Ask the ECR the questions in the green boxes to help them reflect on their perception of career success and how this has been shaped.

Information

What and how is information about careers discussed around you?

Expectations

What career options are acceptable in the circles you mix in?

Feedback

What do people say about who you are and what you do?

Modelling

Who do you see as successful in their career?

Support

What type of career support is available to you at work and beyond?

How have family, colleagues and friends shaped your ideas about career success?

How have your ideas about career success helped or hindered you?

Career Planning

Many career pathways today are non-linear, like a climbing wall rather than a ladder. Changing labour markets, technologies and political situations mean that sectors and jobs change rapidly. People's personal circumstances and needs also change over time.

Most ECRs will step away from the 'academic career ladder' at some point in their career for personal or circumstantial reasons. Therefore, individuals today need to be both strategic and nimble in the way they plan their career.

This tool helps ECRs think about career planning from two different, but not mutually exclusive, perspectives.

Tool 2

Ask the ECR to look at the different, but not mutually exclusive, approaches to career planning in the table. Then ask them the questions in the green boxes to help them reflect on their approach to career planning.

Traditional Career Planning	Planned Happenstance
Matches skills and interests to known jobs	Accepts there are new job titles arising every day
Makes clear decisions about what is next and sticks to these	Keeps a more open mind to unexpected opportunities
A logical and systematic approach	A flexible, non-linear, curious approach
Need for certainty	More accepting of uncertainty

Are there elements of the different approaches that resonate with you?

Which type of approach (or approaches) is (are) likely to be helpful in your current situation and why?

What could you do to plan your career more effectively going forward?

Challenging the sunk cost bias

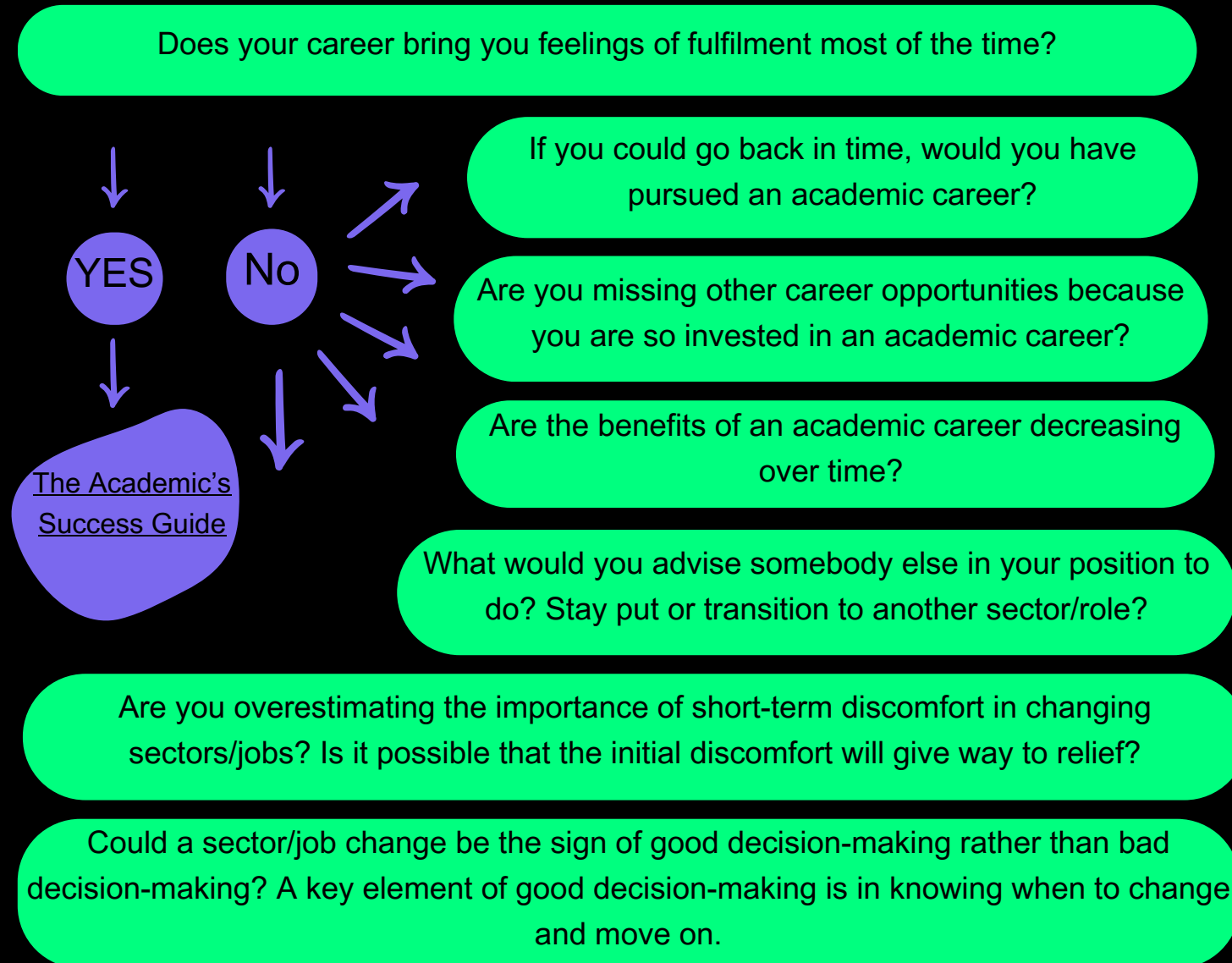
When one has made significant intellectual, financial and personal investments in an endeavour, this endeavour, understandably, becomes deeply significant. Individuals may then be reluctant to move on from the endeavour.

In the context of career management, an ECR may be reluctant to move from an academic career because they have invested so heavily in it, even when it is clear that moving would be beneficial.

This tool helps ECRs to rethink what is known as the **sunk cost bias** within the context of their career management.

Tool 3

Ask the ECR the questions below to help them challenge the sunk cost bias.



Acknowledging grief

Most ECRs, at some point, will move on from an academic position to an alternative role, for example, a role in industry.

If this move was not planned or expected, some ECRs may experience a rollercoaster of emotions similar to people experiencing grief or other types of life change.

Such emotions do not occur in any particular order and are likely to be unique and personal.

For some, it can be useful if their feelings are heard and acknowledged.

Tool 4

If you think that the ECR wants to discuss how they feel, show them the images below, which are derived from the Kubler-Ross change curve. Ask them if they are experiencing any of the sentiments highlighted.

It might help to point out that such feelings and sentiments are normal and that some of the more challenging feelings, such as anger, are likely to pass with time.



No! I refuse to believe I can't secure an academic role!



What? My contract has ended, and I have not secured more funding?



Argh! The academic career structure is unfair!



Ho-hum: I have no motivation to move forward.



OK! I am ready to move forward.



Right! Let's look at my options.

Career values

When people are thinking about careers, it helps to step back and consider personal values i.e. what is important in one's career and life.

Identifying values can help individuals reflect on, evaluate and screen career opportunities.




The more one's career aligns with one's values, the more content one is likely to be in their role.

Tool 5

Explore the career values of the ECR, using the table below.

Ask **'what is important in your career?'**

Start with the table below for ideas and expand if the ECR has their own ideas.

 Core values	Autonomy	Integrity	Creativity or Innovation	Prestige
	Respect	Excellence	Status	Honesty
 Work Environment	Work life balance	High Earnings	Fairness	Structure
	Recognition	Flexibility	Competition	Diversity
 Activities	Team Work	Helping Others	Variety	Solving Problems
	Challenging	Impactful	Home- based, Office-based, Field-based	Analytical

Skills evaluation

It is important that ECRs do a thorough skills evaluation to ascertain the skills they have developed in their career. This includes professional skills, such as the ability to work in a team, as well as their expert knowledge in a subject or their specialist research skills.

Professional skills are highly transferable to a range of roles beyond the academic context; identifying and evidencing these can help ECRs broaden their career options.

Tool 7

The table below lists 3 typical professional skills that are required for many roles, together with behaviours associated with each skill. Ask the ECR to think about, and record, scenarios, tasks and activities when they may have developed each skill below.

Skill	Behaviours associated with the skill
Teamwork	<ul style="list-style-type: none">• Seeks out opportunities to build relationships with people• Asks for, and learns from, other people's approaches• Contributes own ideas and enhances other people's ideas• Facilitates agreement between others to achieve win-win situations
Written and spoken communication	<ul style="list-style-type: none">• Speaks and writes clearly, adapting content, language, tone and length of communication for different stakeholders• Listens to others to understand their perspective and drivers• Asks questions to clarify and understand others• Openly shares information, keeping people informed
Organisation and time management	<ul style="list-style-type: none">• Develops and sets clear objective in line with agreed strategies• Allocates the appropriate amount of time to ensure completion of work• Anticipates potential risks and plans contingencies

Designing a new role: Keep, lose, add

When people are thinking about roles and careers, it can help to reflect on the elements of their role that they want to keep, elements that they want to expand and elements that, in an ideal world, they would lose.

This exercise can help individuals potentially adapt their current role and/or help individuals think about what they might want in a new role if they are thinking about a career change.

Tool 8

Ask the ECR the questions in the blue boxes below to help them either reshape their current role and/or begin constructing a new role. Ask them to write an 'ideal' job description for them.

Keep

What aspects of your role continue to bring you fulfilment?

What do you want to **keep**?

Lose

What aspects of your role no longer bring you fulfilment?

What do you want to **lose**?

Add

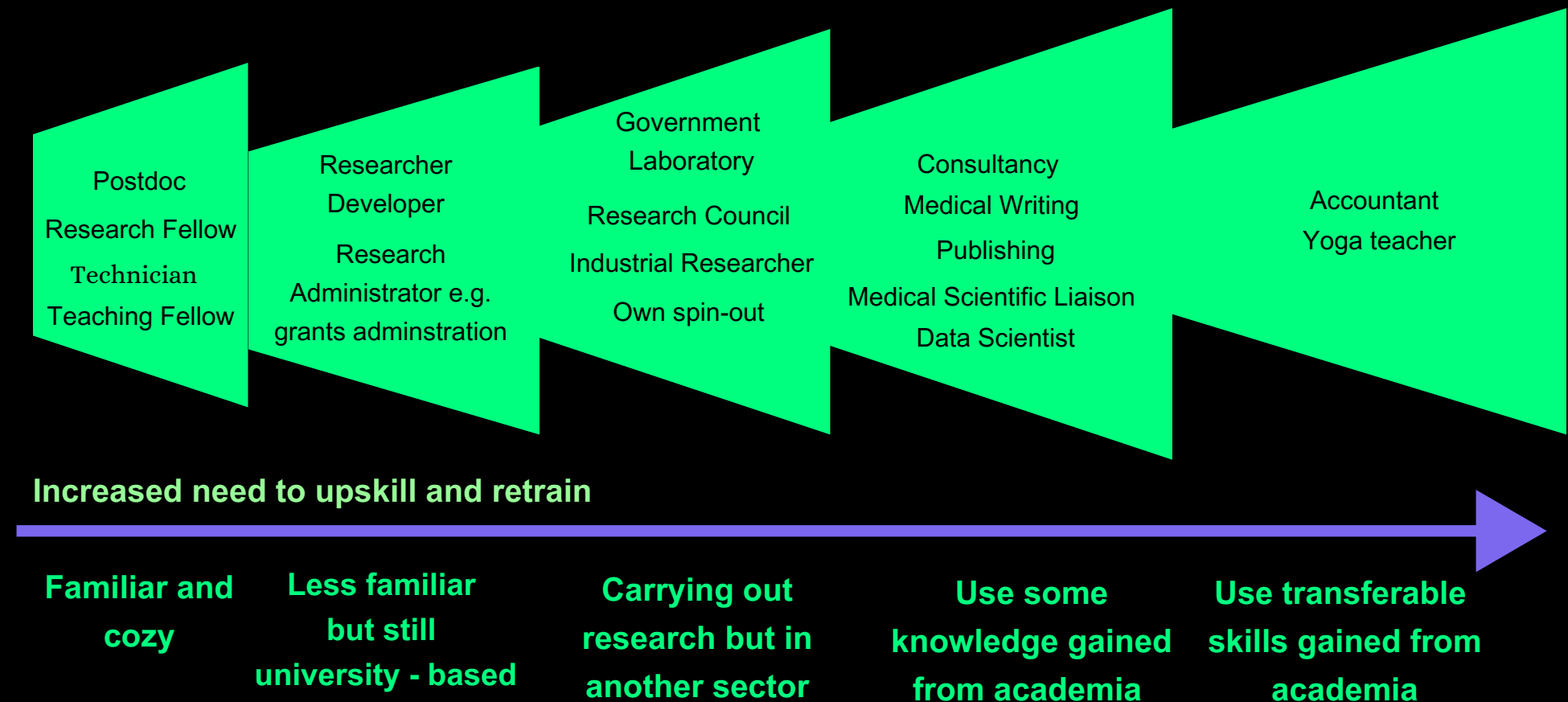
What would you add to your role if you could?

What do you want to **add**?

Career options

Tool 9

Ask the ECR how far from their current role they want to move, when considering their career options. The widening funnel below illustrates an increasing number of options moving from left to right, but with an increased need to upskill and/or retrain. The bottom blue box has links to a more extensive range of career options. PGRs, Postdocs and Fellows at Imperial can also book an appointment with the careers service [here](#).



[Bioscience Careers: Making Career Choices](#)

[Industry Careers for STEM Professional](#)

[Who's hiring Physics PhDs?](#)

[Possible Careers for PhDs in Biomedical Science](#)

Low risk experiments

Moving to a different sector, such as industry, or changing careers often feels risky. What happens if an ECR moves to an industry role and does not enjoy working in the new sector?

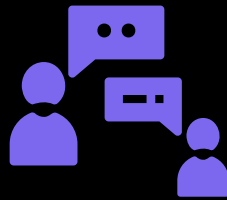
One way to minimise the risk of moving sectors and/or changing careers is to try low-risk experiments. In the context of career change, this means thinking creatively about ways to gain a 'taste' of the new career.

Tool 10

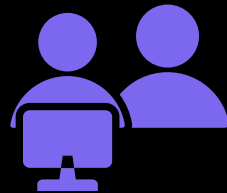
Discuss different ways to get a 'taste' of a role, or roles, being considered. There are a few ideas below.



LEARN: Look at online courses to upskill and learn elements of the new role e.g. do a course to learn a new programming skill for data science roles.



TALK: Organise a brief discussion (informational interview) with a person doing the job you are interested in. Ask lots of questions about the role and the company. See the ECRI 'make connections' page for more information about the contacts database.



WATCH: Organise 1 - 2 days of work shadowing if possible. Use the 10 development days in your Imperial contract.



TRY: Think about ways to try out the new role. Volunteer, work part-time, take time from your 10 development days, organise a secondment or a job swap. It is difficult but not impossible.

References

Tool 1

- Law, B. (1981). Community interaction: A mid-range focus for theories of career development in young adults. In W. Dryden & A. G. Watts (Eds.), *Guidance and counselling in Britain: A 20-year perspective* (pp. 211–230). Cambridge: Hobsons Publishing.
- Law, B. (2002). Building on what we know: *Community-interaction and its importance for contemporary careers-work*. Retrieved from <https://www.hihohiho.com/memory/cafcit.pdf>

Tool 2

- Tupper, H., & Ellis, S. (2020). *The squiggly career*.
- Krumboltz, J. D., & Levin, A. S. (2004). *Luck is no accident: Making the most of happenstance in your life*. Impact Publishers.
- Bright, J., & Pryor, R. (2012). Chaos career theory [Video]. YouTube. <https://www.youtube.com/watch?v=xyz123>

Tool 3

- Wilson, T. D., & Arkes, H. R. (2008). My loss is your loss... Sometime: Loss aversion and the effect of motivational biases. *Risk Analysis*, 28(4), 929-938.
- Letting go of sunk costs. (2014, September). *Psychology Today*. <https://www.psychologytoday.com/gb/blog/anxiety-files/201409/letting-go-sunk-costs>
- The sunk cost fallacy. (n.d.). *Angewandte Chemie International Edition*. <https://onlinelibrary.wiley.com/doi/full/10.1002/anie.202208429>

Tool 8

- Prescott, H. (2023, December 2). Keep, lose, add: The ‘bits’ of academia you REALLY enjoy... and how to find work based on these. *Postgradual: The PhD Careers Blog*. <https://phd-careers.co.uk/2023/12/02/what-bits-of-academia-do-you-really-enjoy-and-how-to-find-work-based-on-these/>

Tool 9

- Vitae. (n.d.). *Broadening horizons diagram*. In *Career wise researcher*. <https://www.abdn.ac.uk/careers/resources/documents/5503.pdf>

Feedback

We are seeking feedback on the tools provided in The Change Project. We'd be grateful if you could take 5 minutes to complete four short questions in the Microsoft Forms link below - thank you.

<https://forms.office.com/e/eXZKMxPgLf>