The **Computational Science Centre for Research Communities (CoSeC)** is a national Centre run by UKRI's Science and Technology Facilities Council (STFC). As a component of the UK's National Laboratories, it sits within STFC's Scientific Computing department where it draws from a 300+ strong team of expert Research Technical Professionals. The Centre has been an integral part of the Collaborative Computational Project (CCP) model for the past five decades, delivering collaborative work around domain-specific research software development, support, and training. Over the coming years CoSeC will now enable the CCP model across UKRI, highlighting the power of organised networking for computational research.

In 2024 CoSeC will welcome its first cohort of CoSeC Fellows. Each will become an ambassador for the Centre, highlighting the benefits of CoSeC and the CCP model, and making scientists and researchers aware of the world leading activities undertaken through the Centre's work. CoSeC Fellows will help to highlight the work of CoSeC in supporting the advancement of computational research by developing and strengthening software to analyse and solve increasingly complex problems in multiple disciplines across UKRI – arts, humanities, physical sciences, engineering and more. **In return CoSeC Fellows will gain access to, and learn from, interactions across a wide range of research areas. Fellows will gain experience of working in a world-leading scientific environment, increasing their skills and knowledge**. **They will have the opportunity to raise their own personal profile and have the prospect of creating future educational and employment openings as they develop their careers.**

Fellows are expected to have specific goals and outcomes they would like to achieve personally that are guided by the high-level goals of CoSeC:

- **Ensure the UK has the right codes to take advantage of accelerator-based systems.** The UKRI DRI federated computing infrastructure landscape is heterogeneous. To maximise the potential of the UKs research codes, they must effectively work across as much of this as possible, while making the best use of specialist hardware where appropriate. A key aspect of this are GPU accelerators which form a key aspect of all upcoming DRI investments in the UK.
- **Expand the user base of computational services to all UKRI's communities**. CoSeC will use its funding, combined with its widespread influence to ensure that the CCP model is spread across UKRI. Alongside this, the Centre will develop its own internal capabilities around delivery of training, and centralised skills and knowledge for key topics like AI, Quantum Computing and Data Curation to provide wide access and knowledge exchange across UKRI.
- **Implement the DSIT Future of Compute Review to create a long-term coordinated and coherent computational capability for the UK**. CoSeC to be a focal point and hub for CCP and HEC activity, sustaining, guiding and creating new communities. This builds on the activities of existing communities, allowing them to explore all of UKRI. At the same time, it allows for the creation of new communities centred around research software. The outputs of these communities are integral within CoSeC through its collaborative technical work and also in the way that they are integrated back into the Centre's cross-cutting capabilities.

Fellows can utilise their funding in several ways, examples include:

- Attendance at relevant events such as the CoSeC Communities Forum or specific community meetings, with the expectation being that a Fellow would be actively engaged in some form of knowledge exchange or dissemination.

- Organising or attending wider events that develop good working practices and highlight the goals and input of CoSeC.
- Running *idea factory* events to identify important cross-cutting topics or explore new ideas and set roadmaps.

Each Fellow will be given a presence on CoSeC's website and visibility through STFC's impact generation platforms such as CoSeC blog posts and CoSeC and UKRI/STFC social media.

Following selection each Fellow will be awarded a package of financial support up to the value of £3000 over a 15-month period alongside excellent networking opportunities and professional support and advice. This funding will be provided on demand to support each Fellow's proposed activities and in each case will agree an output to be provided back to CoSeC.

The end of the 15-month term does not mean the end of the Fellowship, CoSeC intends to operate a "Once a Fellow, always a Fellow" approach, building a supportive and engaging environment to encourage future growth and interaction with our Fellows and opportunities to engage and network with future cohorts.

TIMELINE

1 July 2024: Applications open for the 2024 CoSeC Fellow cohort.

31 August 2024: Deadline for applications – application process closes.

1 October 2024: 2024 CoSeC Fellows confirmed – 15-month term begins.

31 December 2025: 2024 CoSeC Fellows cohort term ends.

The initial 2024 cohort will consist of 10 CoSeC Fellows, with a further 10 added in 2025.

Selection will be completed by a panel of experts and researchers within the Centre based on submissions to an online application form that will request the following information:

1. Personal information about you (such as name and contact information) and demographic information.
2. Information about where you work and your domain, field, and/or area of work.
3. Information about your research/work.
4. Information about financial support for your research/work.
5. Information about your plans for the Fellowship if selected.

Please Note: successful applicants will be required to invoice CoSeC for their funding as required throughout the 15-month term of the fellowship. CoSeC will not transfer the funding in one lump sum at the start of the fellowship term.

We expect successful Fellows to be able to actively engage within CoSeC's research communities. This is likely to include in-person interactions with communities or with CoSeC itself.

SUBMIT YOUR APPLICATION HERE