

Justification of Resources

Professor Staunton will spend 2% of her time on this project. Her time will be primarily spent on overseeing the work and activities funded by this grant and strategic planning for this CCP.

Networking

CCP-mag community events: These events are the main activity, which directly address the whole UK magnetism community, and are fully funded through this CCP. The numbers are based on costs of £120 per participant per day and 50 participants. All meetings are planned to last one day, from midday to midday to minimize the accommodation cost.

Start-up meeting (50 participants):	£ 6,000
2 CCP-mag community meetings (£6,000 each):	£12,000

Hands-On Courses (fully funded): Costing is based on £150 per participant per day, 20 participants and a course duration of 3 days. All courses are to be held annually:

5 x Vampire (£9000 each)	£45,000
5 x Nmag	£45,000
5 x McPhase	£45,000

Co-funded events: Scientific workshops and Hands-On courses have reached an international level, and are usually co-funded by CECAM or Psi-k. We seek funding for the UK participants of these workshops, and will contribute up to £3000 for each event.

3 x KKR Hands-On Course: participation at CCP9 workshop CCP-mag will sponsor additional £3000 for CCP-mag participants	£ 9,000
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Annual TEMM or IOP Magnetism meeting (£4,000 each)	£20,000
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Outreach and Widening Participation:

Travel budget for visits to or from industry: (£1,000 per annum)	£ 5,000
Materials Research Exchange participation (2 events):	
2 x stands at (£850+VAT)	£ 2,040
2 x travel (3 persons, £ 150 each)	£ 900
Promotional material:	£ 2,000
Exhibition display stand	£ 1,000
Participation at MMM/InterMag: (2x) booth (£2000) travel (2 persons at £2000)	£12,000

Travel support for the CCP-mag working group:

We will organize the working group meetings in a central location to minimize the necessary travel. Whenever possible, the meetings will be combined with the community meetings. We ask for travel support for the remaining 2 years:

2 years x 10 members x £100:	£ 2,000
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Travel support for teachers and tutors for the Hands-On courses

We will organize the working group meetings in a central location to minimize the necessary travel. Whenever possible, the meetings will be combined with the community meetings. We ask for travel support for the remaining 2 years:

2 years x 10 members x £100: £ 2,000

Travel support for the half-yearly developers meetings (5 developers)

10 meetings, one night (£100) + travel (£100) £ 2,000

Visiting professor programme:

4 visits per year (£1,000 each) £20,000

no cost for administrative support is requested as this is provided through the core support.

Core Support (FTE's are specified per year)

The core support at STFC is a vital part of CCPs, and provides central services for large parts of the community. While the administrative support directly affects the whole community, code support is specialised on a subset of CCP codes, where developers have requested support in very specific tasks.

Coordination and organization of networking events and training: (5 years at 0.1 FTE)

Co-ordination of all network events, organising the registration, as well as setting up online tutorials will take up about 15 days per year.

Code Development: Interfacing (0.5 FTE per year for 5 years)

The main activity of this new network is to interface the different codes, such that seamless applications on several length scales are feasible. This is a major task, as it involves first of all the identification of data to be transferred, and then the design of an efficient and future proof data format. This activity, as well as the actual implementation will require close collaboration of the core support team with the respective code developers. Together with the development of a full documentation of the data formats, and the added features to the codes, which enable these links, as well as full testing of all new implementations, this code development support will require 0.5 FTE over the full duration of the project (5 years)

Software Support for ISIS users (5 years at 0.3 FTE)

McPhase is an extremely useful, but not yet user-friendly code. Implementing a new user-interface, and incorporating it into the instrument workflow, will be a substantial task. We request 0.3 FTE for the full duration of the project.

Coordination of a flagship project (0.1 FTE for 5 years)

Organising a flagship project across the different parts of the community requires a lot of co-organization between the involved groups. For the first year of the project, we request 0.1 FTE to co-ordinate plans for the flagship, write and submit the flagship proposal to the next appropriate "software for the future" call. If the project gets funded we will use 0.1 FTE per year to co-ordinate the project activities, and provide software development support to the project partners. Once the flagship software has been developed, the core support team will provide the long-term support and maintenance of the code.

Admin Support (0.1 FTE for 5 years)

Keeping the CCP-mag web pages up to date, collecting new information for the web page, and assisting the community with eCSE proposals will, on average, take half a day per week (0.1 FTE).