

#### Welcome!

## Virtual tutorial starts at 15:00 BST





# eCSE Overview

ARCHER Virtual Tutorial, Wed 27<sup>th</sup> August 2014 Lorna Smith, Chris Johnson and Xu Guo EPCC



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## Overview

- Programme provides funding to ARCHER user community to develop software in a sustainable manner for ARCHER
- Objectives
  - To sustain key codes for the UK computational science community
  - To facilitate efficient use of ARCHER resources through enhanced code performance/functionality
  - To offer a not-for-profit service that provides value for money to the HPC user community and beyond
- Also
  - Develop and sustain codes and communities from new areas
  - Support and encourage early career researchers





# Embedded CSE (eCSE)

- 3 regular calls per year
  - Current (3<sup>rd</sup>) call closes Tuesday 16<sup>th</sup> September, 2014
- Most projects between 3 and 12 months
  - In exceptional cases this can be longer, but needs strong justification
- Not-for-profit
  - Committed to 14 FTE per year. Additional money will be put into further eCSE PMs
- Implementation of new functionality/algorithms is permitted
  - But not the development of these algorithms





## eCSE process









# eCSE Applications

- After calls opens, proposals should be submitted via SAFE:
  - https://www.archer.ac.uk/safe/
  - Please register first if you are not a registered user in SAFE
- Information and guidelines for applying can be found at:
  - <u>https://www.archer.ac.uk/community/eCSE/eCSE\_ApplicationGuidance.pdf</u>
  - <u>https://www.archer.ac.uk/community/eCSE/eCSE\_ProposalTemplate.doc</u>
- Applicants can request guidance from the centralised CSE team before submission:
  - Please contact ARCHER helpdesk: support@archer.ac.uk





# eCSE Applications (Cont.)

- Technical effort level
  - Effort should be specified in Person Months (PMs)
- Cost rate
  - 100% fEC should be provided for each proposed candidate
    - We pay 80% fEC for successful projects
    - no need to specify costs for ARCHER CSE team member (i.e. EPCC staff)
  - Details about any existing funding for the proposed technical candidates should be provided
- Travel funding
  - Appropriate travel for funded technical staff within the UK may be supported e.g. to meet Co-Is





# Reviewing eCSE Applications

- Two stage reviews for all eCSE applications
  - Technical Reviews (TRs)
  - Panel Reviews





## Technical Review (TR)

- Administrative checks will be applied for all submissions before TRs
- Applications will be reviewed by technical advisors and the ARCHER centralised CSE team
  - Majority carried out by the centralised team
  - If conflicts of interest, proposal reviewed by external advisors





#### **TR Feedback**

- Feedback will be provided to all applicants after admin check and TRs
- Applicants will be given the opportunity to respond to these comments / request for further information
  - Original proposal will not be updated, only additional response can be submitted via SAFE
  - All information supplied to the panel
  - Can also choose to withdraw and submit to a later panel





## Panel Reviews & Panel Meetings

- Each application will be reviewed by two panel members independently prior to the panel meeting
  - Based on the Assessment Criteria
- Panel Meeting will take place within around 8 weeks after the call closed
- For each application, Panel can decide to fund, not fund or if needed fund in part
- Panel can fund with requirements e.g. propose improvements, extra impact activities, etc.
- Conflicts of interest handled in same way as EPSRC





#### Assessment criteria

- Applicants
  - Track record of applicants, demonstrate project can be completed
- Technical context
  - Sufficient technical information provided
- Benefits
  - Why it is needed, what are the expected benefits
  - Scientific, computational and to ARCHER community
- Pathway to impact
  - Impact activities to ensure potential benefits are achieved
- Work plan
  - Appropriate plan for management, technical work and resources
- Overall
  - Overall quality and objectives





#### Points to remember

- Specific Benefit to the ARCHER community
  - Availability of code on ARCHER
  - · Who will utilise the improvements and for what activity
- Travel
  - Normally only fund travel for the technical staff members
  - Appropriate travel within the UK
  - Do not normally fund travel to conferences.
- Staffing experience and profile
  - Considered by the panel
  - Experience of PIs/Co-Is relevant as is training plan
- Existing funding
  - Looking to ensure the work is not suppose to be carried out under a different project





## Final Decisions and Feedback

- Final decisions will be sent to applicants together with feedback from the panel
  - Within around 2 weeks after the panel meeting
- Successful applications
  - See next section
- Unsuccessful applications
  - Will be provided with constructive feedback
  - If appropriate will be encouraged to contact the CSE team for further advice and support in the preparation for the resubmission to the future call





# eCSE running projects









### Overview

- What happens if your project is accepted?
  - Contracts
  - ARCHER cpu-hours awarded
  - Contact point
  - Project Monitoring
  - Reporting
    - Quarterly reports
    - Final report





#### Contracts

- Soon after projects are accepted we send out a contract
- In principle this is "3-way" between Institutions
- Usually involves legal team/contracts management
- Document includes workplan, level of funding, start dates, etc.



## **ARCHER CPU-hours awarded**

- Each eCSE project gets an ARCHER project
  - Project gets 50 kAUs per staff month awarded
    - E.g. 3 month project would get 150 kAUs equivalent to 10,000 core hours
    - Can request more but needs to be stated on proposal and justified
  - CPU hours can only be used for eCSE work
  - eCSE PI is made PI of project





## Contact point

- Each project is assigned a contact point with centralised CSE team
  - Will be in touch early on in project
  - Discuss project/technical problems





# Project monitoring

- During the project
  - Quarterly report
  - Engagement with the ARCHER community
- On completion
  - Final report
  - ARCHER Webinar
- Final report
  - reviewed by a combination of technical advisors / eCSE panel members
  - Feedback summary provided to PI/Technical staff





# **Quarterly Report**

- Required each quarter for projects > 3 months in length
- Report on
  - Effort spent to date
    - equivalent rates to the TRAC model.
    - Full time fEC for a year is equiv of 7.5 hours per day for 220 days
    - Report on any staffing issue which have affect effort spent
  - Main achievements
  - Exceptions
  - Software outputs
  - Technical staff engagements
  - Dissemination





## Final report

- The final reports will be used for two main requirements:
  - To assess the success of the project;
  - For publicity purposes highlighting computational advances; current/potential scientific advances; current/potential impact.
- Short, tight limits on each section
- Publishable component
  - Including availability of code
- Technical, benefits, Impact, Engagement, Feedback







## Goodbye!

#### Virtual tutorial has finished



