Welcome!

Virtual tutorial starts at 15:00 BST
eCSE Overview

ARCHER Virtual Tutorial, Wed 27th August 2014
Lorna Smith, Chris Johnson and Xu Guo
EPCC
Reusing this material

This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.  
http://creativecommons.org/licenses/by-nc-sa/4.0/deed.en_US

This means you are free to copy and redistribute the material and adapt and build on the material under the following terms: You must give appropriate credit, provide a link to the license and indicate if changes were made. If you adapt or build on the material you must distribute your work under the same license as the original.

Note that this presentation contains images owned by others. Please seek their permission before reusing these images.
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 (3rd) call closes Tuesday 16th 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

call opens

guidance provided

call closes

TRs carried out, request sent to applicants

response to TR received

panel reviews carried out

panel meeting, ranked list created

results and feedback

panel reviews carried out

TRs carried out, request sent to applicants

response to TR received

panel meeting, ranked list created

results and feedback
eCSE Applications

• After calls opens, proposals should be submitted via SAFE:
  • [https://www.archer.ac.uk/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:
  • [https://www.archer.ac.uk/community/eCSE/eCSE_ApplicationGuidance.pdf](https://www.archer.ac.uk/community/eCSE/eCSE_ApplicationGuidance.pdf)
  • [https://www.archer.ac.uk/community/eCSE/eCSE_ProposalTemplate.doc](https://www.archer.ac.uk/community/eCSE/eCSE_ProposalTemplate.doc)

• 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.

Edinburgh University

“the University”

Institution of PI

“Institution of technical staff”

“the Partner”

“the Consultant”
ARCHER CPU-hours awarded

- Each eCSE project gets an ARChER project
  - Project gets 50 kAU$ per staff month awarded
    - E.g. 3 month project would get 150 kAU$ 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