HPC-Europa3
Collaborative research visits using High Performance Computing

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HPC-Europa3 overview

Webinar overview:
- What is HPC-Europa3?
- Who can apply?
- Where can I visit?
- Why should I apply?
- How do I apply?
- Where can I find more information?
What is HPC-Europa3?

EC funding for short collaborative research visits using HPC

- **Access to HPC systems**
  - Including some of the most powerful in Europe
- **Technical support and consultancy**
  - To help you make best use of the HPC facilities
- **Supportive collaborative environment**
  - Working with a host researcher in your own field
- **Travel and living expenses**

Visits of 2-13 weeks

- Duration of longer visits should be well justified
- You can apply for more than one visit, to maximum total of 13 weeks

Targets across the 9 centres over 4 years:

- 1220 visits
- >93 million core-hours

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Who can apply?

Anyone working on non-proprietary research which needs HPC!

◦ Any level – early postgraduate to full professor
◦ Any discipline – as long as can make use of HPC facilities
◦ Academic or industrial / commercial researchers
  ◦ Also limited places for researchers from other countries
◦ HPC experience not necessarily a pre-requisite – consultancy, and maybe courses: [http://www.hpc-europa.org/training-opportunities](http://www.hpc-europa.org/training-opportunities)

HPC-Europa3 visitors to EPCC to date:

[https://www.wiki.ed.ac.uk/display/HPCE/Visitors+to+EPCC+under+HPC-Europa3](https://www.wiki.ed.ac.uk/display/HPCE/Visitors+to+EPCC+under+HPC-Europa3)
Where can I visit?

Any research group, in one of 9 participating countries

Identify a host researcher with matching interests
- List of current hosts: [https://hpc-europa.cineca.it/hostlist](https://hpc-europa.cineca.it/hostlist)
- New hosts can be added at any time
- Can be anywhere in the country
  - EPCC visitors currently in Edinburgh, St Andrews, London & Reading
- Can be hosted in HPC centre if doing research into HPC
- We can help – but you know your research best!

Use facilities at HPC centre in host country
- NB British Isles region
- Visitors to UK / Ireland can use EPCC / ICHEC systems
Why should I apply?

Many benefits:
- Get better research results quicker
- Learn new skills
- Extend your professional network
  - Build opportunities for on-going collaborations / future job prospects
- Get away from usual commitments and focus on your research
- Experience living and working in a different country

Project successes:
- 25 publications (mid-January 2019) + more in preparation
- Successful re-applications (same visitor or others in group)
  - Plus further visits with other funding
- Subsequent jobs secured in host dept or through links made in visit
- Other anecdotal benefits
  - e.g. knowledge transfer from visitor to host dept PhD students in office

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Some quotes from participants

Visitors:
- “I had the chance to interact with many brilliant scientists”
- “a really valuable experience for which I am really grateful”
- “a very enriching experience in many ways”
- “For a PhD student with little experience of international science, this was a great experience”
- “an excellent opportunity to gain access to HPC experts, leading research centres and hardware resources which are not available elsewhere”
- “it has been the best professional and personal experience of my life”

Hosts:
- “excellent way to have international collaborations with excellent scientists”
- “All worked very efficiently. We could concentrate on the core science”
So...how do I apply?

Apply online: [http://www.hpc-europa.org](http://www.hpc-europa.org)
- 4 closing dates per year, apply at any time
- Apply to closing date 3-8 months before intended start date
  - Allow 2 months from closing date for decision

Prepare your application well!
- Form can be completed in stages
- *Strongly recommend* contacting host in advance
  - More chance of success, may get useful input, may suggest alternative host
- Also recommend checking HPC resources are suitable

We are here to help!
- Contact *staff@hpc-europa.org* with any doubts
- But *please read the guidelines and FAQ first!* [http://www.hpc-europa.org/guidelines](http://www.hpc-europa.org/guidelines)
Where can I find more information?

From the project:
- Webpage: http://www.hpc-europa.org
- Information about centres at http://www.hpc-europa.org/transnational_access
- Twitter: https://twitter.com/@HPCEuropa3

From the visitors:
- Visitor project abstracts: https://hpc-europa.cineca.it/visitors
- First project directory: linked from http://www.hpc-europa.org/public-documents
- Visitor blog articles: https://www.epcc.ed.ac.uk/blog/tags/hpc-europa-3

Previous ARCHER webinar:
- Looks in more detail at the application form: http://bit.ly/2rhQDPR
Any questions?
Additional slides

The next slides contain some statistics (Months 1-18 only)

- 5 closing dates for applications
- 266 applications
- 204 (77%) accepted
Transnational Access: Applications by country of institute

- 48 countries
  - 216 applications from EU (all except Luxembourg and Malta)
  - 32 applications from 10 of the 16 Associated States;
  - 18 applications from 12 other countries
Transnational Access: Applications by scientific discipline

Graph showing applications and accepted applications by scientific discipline.
Transnational Access: Applicants by research career stage

- More postgraduates than any other category
- But broadly even split
Transnational Access: Applicants by gender

Female researchers account for 23% of applicants / 25% of those accepted

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