

HPC-Europa3

Collaborative research visits using
High Performance Computing

CATHERINE INGLIS

HPC-EUROPA3 TRANSNATIONAL ACCESS CO-ORDINATOR

EPCC, UNIVERSITY OF EDINBURGH

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

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
- Researchers currently based in the EU and Associated States:
http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cpart/h2020-hi-list-ac_en.pdf
- 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>

HPC-Europa3 visitors to EPCC to date:

<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>
- 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

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>

- 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>

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?



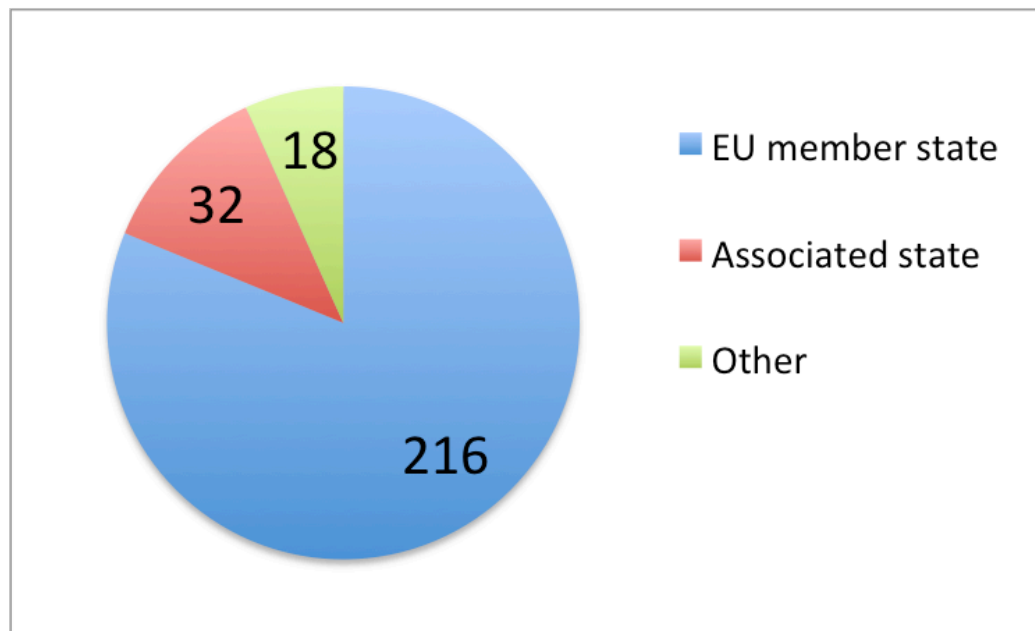
Additional slides

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

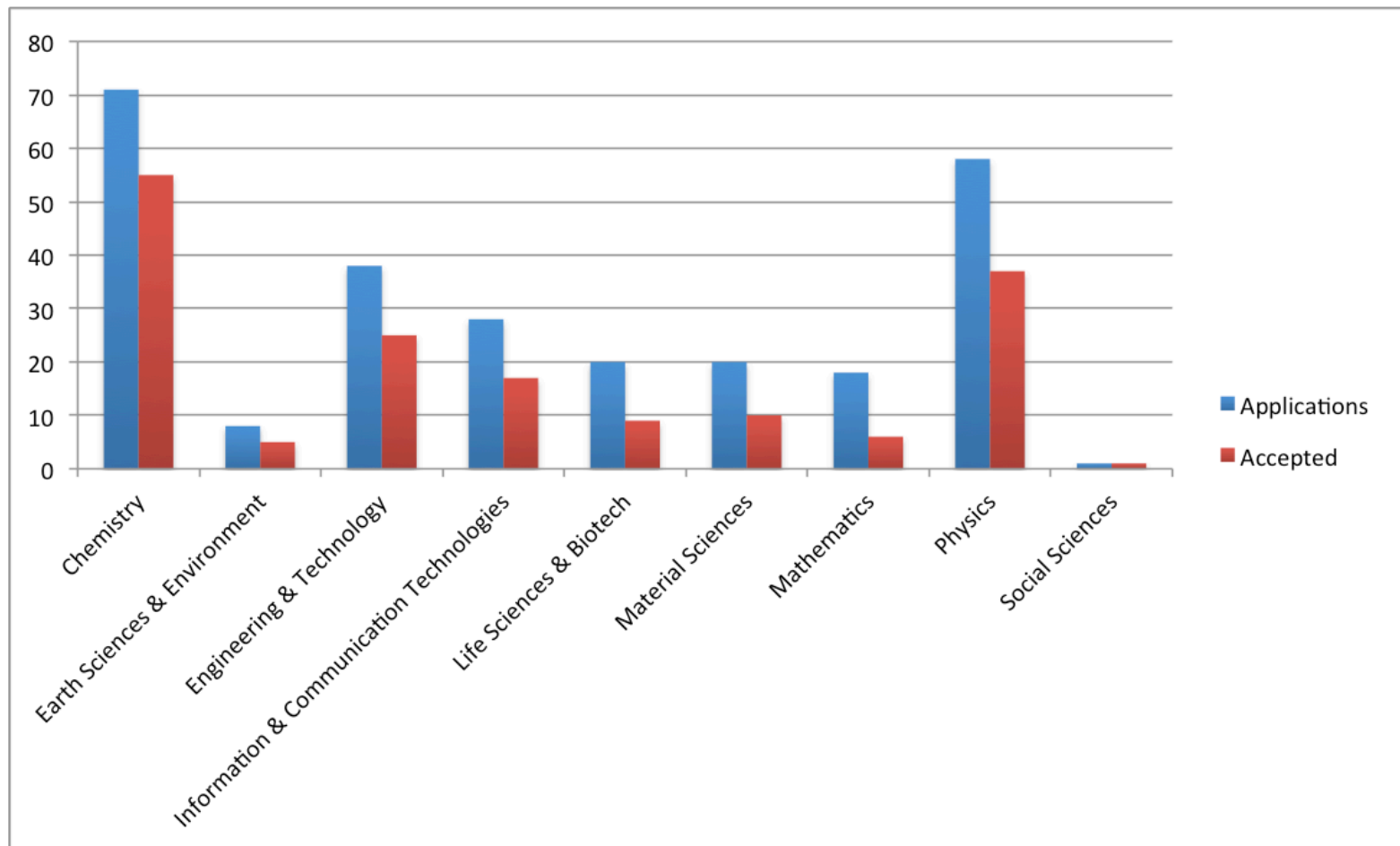
- 5 closing dates for applications
- 266 applications
- 204 (77%) accepted

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

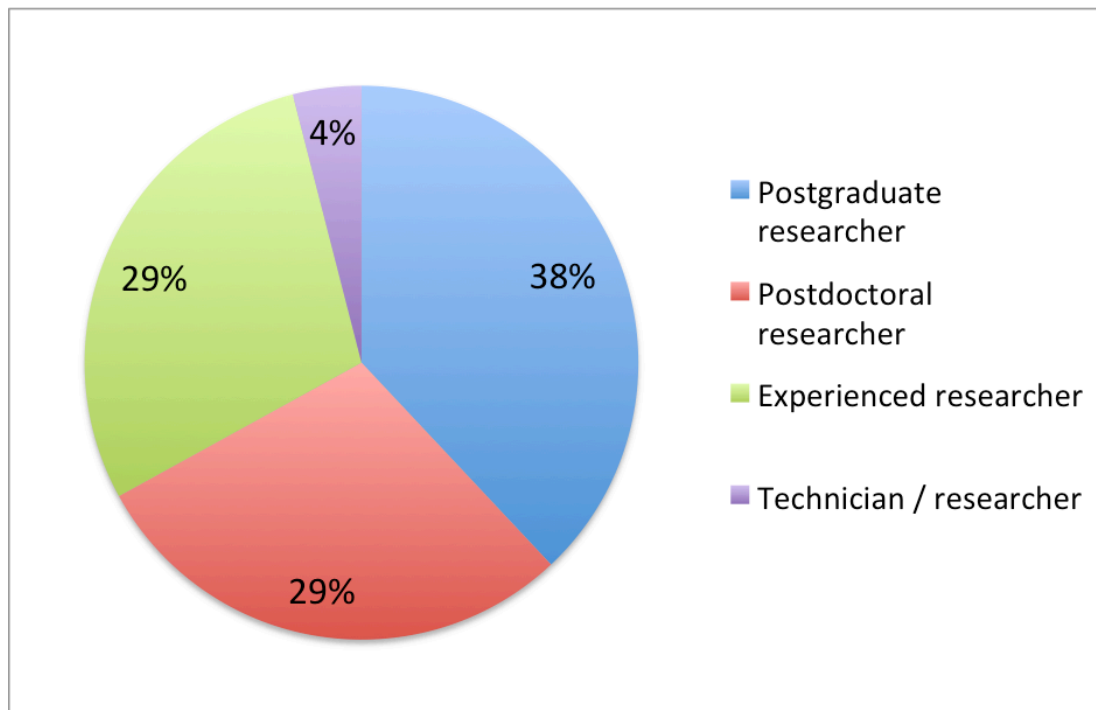


Transnational Access: Applications by scientific discipline

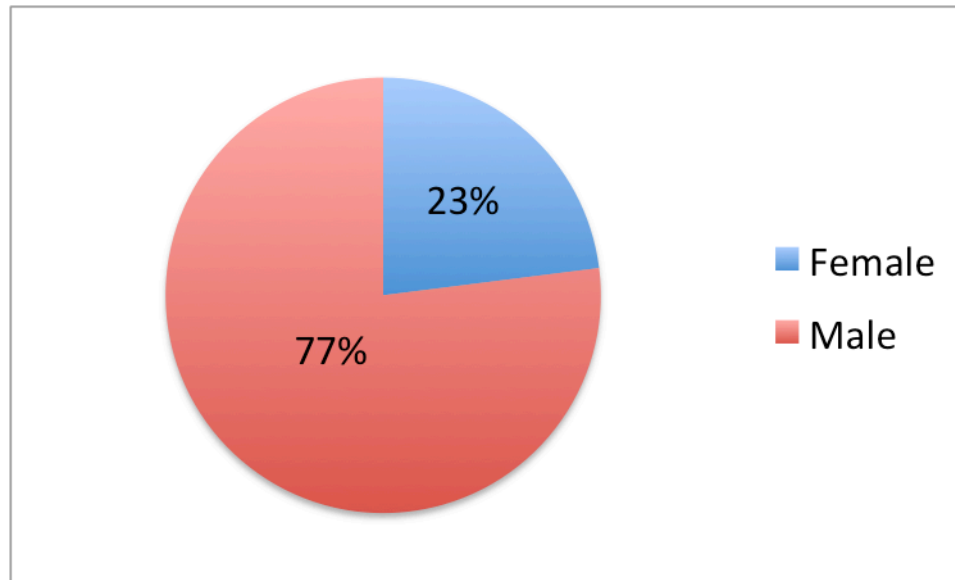


Transnational Access: Applicants by research career stage

- 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