



FF4EUROHPC 2ND CALL FOR PROPOSALS FOR HIGH QUALITY EXPERIMENTS INVOLVING INNOVATIVE SMES USING ADVANCED HPC SERVICES

| PRESENTATION LANGUAGE: ENGLISH |

JULY 15 | 10:30 CET | 11:30 EEST | ONLINE



EuroCC@Greece/ FF4EuroHPC Joint Event

FF4EuroHPC 2nd call for proposals for high quality experiments involving innovative SMEs using advanced HPC services

Programme

15 July, 2021

11:30 – 13:30 EEST

Title and Content	Duration	Speakers
Welcome & Introduction - agenda presentation - <u>EuroCC@Greece National Competence Center</u> - presentation of activities	20'	Ilias Hatzakis, GRNET
FF4EuroHPC Open Call 2 presentation	20'	Tomi Ilias, Arctur, FF4Europe
Q&A	15'	
The <u>EuroHPC</u> infrastructure and services access	15'	Evangelos Foloros, EUROHPC JU
Success story presentation: Shape Optimization under Uncertainty through HPC Cloud	20'	Alessandro Alaia, OPTIMAD Engineering
<u>PedDose</u> : A pediatric simulated dosimetry platform for clinical use. A successful FF4EuroHPC submission	15'	Panagiotis Papadimitroulas, <u>Bioentech</u>
Q&A	15'	
<i>Wrap-up and Closing</i>	5'	Ilias Hatzakis, GRNET

EuroCC@Greece



The National Competence Center is the single point of contact and coordination on a national level for HPC. Its missions are to analyse, implement and coordinate all necessary activities and offer services to end users to cover their needs: from access to resources and technological consultancy to the provision of training courses for academia, public administrations and industry.

EuroCC@Greece is one of the 33 HPC Competence Centres, built in the framework of the European High Performance Computing Joint Undertaking (EuroHPC JU).

Consortium

The Greek National Competence Center “EuroCC@Greece”, is run by a consortium of 5 institutions, namely

- [GRNET – National Infrastructures for Research and Technology](#) (coordinator),
- [National Center for Scientific Research “Demokritos”](#),
- [Foundation for Research and Technology – Hellas \(FORTH\)](#),
- [Institute of Communication and Computer Systems of NTUA](#)
- [Aristotle University of Thessaloniki](#).



The project has received funding from the European High-Performance computing Joint Undertaking (JU) under grant agreement No 951732 and the Greek Secretariat for Research and Technology.

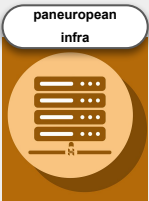




Steering group



Other NCCs

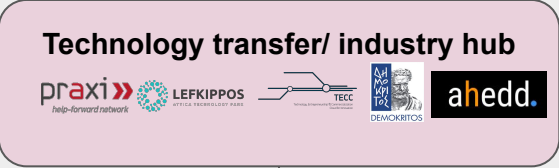


Competence map


Management office

Dissemination office

Dissemination Activities



Unique contact point per partner of national EUROCC



General Public

SMEs

Academy - science

Public sector

Other collaborations

Training

Training is the most important entry point for accessing HPC resources. In this “training” area of EuroCC@Greece you can discover available sources for training in Greece and Europe. You can visit the “[HPC/BD/AI training in Greece repository](#)” in which, through keywords or through filtering by domain, course type, institution, or your level of readiness you can find out all kinds of relevant trainings in Greece on AI, BD and HPC. At the moment we have identified 421 relevant training programs, mainly bachelor degree or masters degree, and a few summer schools, webinars and HPC specialized courses.

Moreover, in this area you can find a [collection of video lectures](#) on HPC related topics, coming from all sorts of training providers, Universities, HPC centers, vendors etc, identified and approved as very useful for potential HPC users.

Additionally, there are sections where you are informed about [upcoming training events](#) all over Europe, or you can discover all kinds of [training resources](#), online material, presentations, white papers and publications, produced and delivered by PRACE training centers, HPC centers and domain expert Centers of Excellence.

Last but certainly not least, you have access to the official HPC training delivered by GRNET, and its role as an [official PRACE training center](#). The hands-on trainings 2-3 day webinars cover both basic skills in parallel programming technologies and domain specific specialized knowledge with topics such as “Introduction to Parallel Programming”, “GPU programming using CUDA”, “Effective use of HPC systems”, “Introduction to biomolecular modeling in HPC”, “Machine learning in HPC”, “accelerator programming”, “Meteorological and climate modeling” and the list is about to be enlarged in the following years.

Finally there is a section that leads to all the [scientific publications](#) coming from researchers and scientists in Greece that have used the ARIS supercomputer infrastructure during the last years.

If you want to help us improve the level of training on HPC related topics, please take a few minutes to fill in the [online questionnaire](#) in order to identify training needs, it will be a significant help for us in designing our next actions.



All Courses

All Courses

421

Search

Fields



AI 294

DA 53

HPC 37

HPDA 36

HPCAI 15

Course Types



Course - MSc level 190

Course - BSc level 144

MSc 67

BSc 6

Seminar/Webinar 6

Sort by

No Sort



421 records found, showing records from 1 to 10

Introduction to Parallel Programming

Seminar/Webinar GRNET Athens

The focus is to understand the basics of parallel programming with the message-passing interface (MPI) and OpenMP parallel programming paradigms. MPI is the dominant parallelization paradigm in high performance computing and enables one to write programs that run on distributed memory machines...

HPC Intermediate (HPC Developer)

Efficient Use of HPC Systems

Seminar/Webinar GRNET Athens

The purpose of this course is to present to existing and potential users of PRACE HPC systems an introduction on how to efficiently use these systems, their typical tools, software environment, compilers, libraries, MPI/OpenMP, batch system, etc. The trainees will learn what the HPC systems offer

All Courses

All Courses

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- AI 294
- DA 53
- HPC 37
- HPDA 36
- HPCAI 15

Course Types



- Course - MSc level 190
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All Courses

All Institutions

Show top 

AUTH	56
UPATRAS	39
NKUA	38
UTH	34
IHU	32
UOC	26
UOI	25
UNIPI	22
UOP	22
NCSR	18
NTUA	17
IONIO	16
AEGEAN	15
HMU	13
UOM	12

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37 records found, showing records from 1 to 10

Introduction to Parallel Programming

 [Seminar/Webinar](#)  [GRNET](#)  Athens

The focus is to understand the basics of parallel programming with the message-passing interface (MPI) and OpenMP parallel programming paradigms. MPI is the dominant parallelization paradigm in high performance computing and enables one to write programs that run on distributed memory machines...

HPC Intermediate (HPC Developer)

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 [Seminar/Webinar](#)  [GRNET](#)  Athens

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HPC Beginner (HPC user)

Courses on High-performance Computing

All Courses

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Fields



AI 294

DA 53

HPC 37

HPDA 36

HPCAI 15

Course Types



Course - MSc level 190

Course - BSc level 144

MSc 67

BSc 6

Seminar/Webinar 6

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Date Added **Descending**

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Intro

Seminar

The focus is on parallel programming with the message-passing interface (MPI) and OpenMP

HPC

Intermediate (HPC Developer)

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programming with the message-passing interface (MPI) and OpenMP
nant parallelization paradigm in high performance computing and enables
memory machines...

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Seminar/Webinar GRNET Athens

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Home About Industry Training Competences News Contact

Video Lectures

In this section you can find valid video lectures on HPC, coming from entities related to the EuroCC Competence Centers

- HPC INTRODUCTORY +
- BIOMOLECULAR +
- MATERIAL SCIENCES +
- SEISMOLOGY +
- ENERGY -**

HPC in the Energy Sector: the EcoCoE general presentation
The Need for HPC to Support the Energy Transition



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28 April 2020

Density guided simulations – combining cryo-EM data and molecular dynamics simulation

Christian Blau

BioExcel Webinar #42: Density guided simulations
499 views · Apr 28, 2020

BioExcel CoE
1.72K subscribers

H L R I S

ChEESE Advanced Training on HPC for Computational Seismology

José Gracia (HLRS)

ChEESE Advanced Training on HPC for Computational Seismology Day 1-Introducing the codes
277 views · Oct 2K, 2020

BSC CNS
1.62K subscribers

SEARCH UPLOAD YOUR DATA ENCYCLOPEDIA #1 TOOLKIT METAMFO ABOUT FAQ DOCS SOURCES TERMS

First time users can find an introduction to NOMAD tutorials, and videos [here](#).

Computational data +

Search with query: **NOMAD**

There are 19,122 entries left.

only composition that exclusively contain these atoms

NOMAD search (virtual tutorial series)
240 views · Oct 6, 2020

The NOMAD Laboratory
362 subscribers

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EoCoE

EcoCoE general presentation

Edouard Audit, EcoCoE Project Coordinator

Workshop on HPC for Energy applications, June 15 2017

E. AUDIT & P. GIBBON - EcoCoE general presentation
105 views · Apr 6, 2018

EcoCoE CoE
154 subscribers



Upcoming training events in Europe

Discover upcoming training events all over Europe, delivered by PRACE training centers, HPC centers, relative Centers of Excellence etc.

"FF4Europe 2nd call for proposals for high quality experiments involving innovative SMEs using advanced HPC services" online event

FF4EuroHPC European initiative and EuroCC@Greece invite you to participate in the online event titled: "FF4Europe 2nd call for proposals for high quality experiments involving innovative SMEs using advanced HPC services", on July 15th, at 10:30 CET | 11:30 EEST.

ONLINE PRACE Training Centre course (PTC)

GRNET offers a PRACE Training Centre course: "Introduction to Molecular Modeling and Molecular Dynamics in HPC"

HPC for the Greek Health and Life Sciences Sector

EuroCC@Greece's partners, ICS-FORTH and PRAXI Network are inviting you to attend the "HPC for the Greek Health & Life Sciences Sector" online event, on June 17, at 16:00 PM (GMT+3).

Intermedaite Workshop on OpenACC/CUDA by ENCCS – June 28th

This workshop targets researchers and developers who already know the basics of OpenACC and/or CUDA but would like to expand their knowledge.

ENCCS/Intel OpenMP Hackathon at June 8th

To apply for participation in the hackathon you will need a well-defined project with clearly stated goals, and we recommend you to join a team with at least 2 people

Online introductory lectures on quantum computing by CERN

A series of weekly lectures on the basics of quantum computing by CERN is now available

Training resources

GRNET training resources

Find the GRNET training resources on HPC. GRNET is a PRACE training center.

PRACE Training Portal

Browse, search, explore all upcoming training events and every kind of HPC-related training resources on the PRACE training portal. This includes trainings and resourced created by PRACE training centers and other HPC centers, members of PRACE.

HLRS training material

HLRS Teaching and training material (slides, audio and pointing information) and the PDF files (e.g. for personal notes) from the German HPC center HLRS in Stuttgart

ENCCS training resources

Very useful training resources from the Swedish ENCCS on MPI & OpenMP, GPU programming, AI and Deep Learning, performance engineering etc.

PRACE White Papers

On this page you will find PRACE White Papers related to numerous aspects of High Performance Computing

Publications

search

Types

 article
 inproceedings
 inbook
 techreport
 all types

Calls

Publications per Call

 pa004
 pa006
 pr001
 pr002
 pr003
 pr004
 pr005
 pr006
 pr007
 pr008
 preparatory
 vi-seem

Years

 2021
 2020
 2019
 2018
 2017
 2016

Affiliations

(next)

 agricultural university of athens
 aristotle university of
 thessaloniki
 athens university of economics
 and business
 biomedical research foundation,
 academy of athens
 center for renewable energy
 sources and saving
 centre for plasma physics &

283 results

2021

- [283] **Evaluating the Efficiency of the Martini Force Field to Study Protein Dimerization in Aqueous and Membrane Environments** (Christos Lamprakis, Ioannis Andreadelis, John Manchester, Camilo Velez-Vega, José S. Duca, Zoe Cournia), *In J. Chem. Theory Comput.*, volume 17, 2021. [details] [pdf] [doi]
- [282] **Effects of Structural Dynamics on Charge Carrier Transfer in B-DNA: A Combined MD and RT-TDDFT Study** (Marilena Mantela, Andreas Morphis, Konstantinos Lambropoulos, Constantinos Simserides, Rosa Di Felice), *In The Journal of Physical Chemistry B*, volume 125, 2021. [details] [pdf] [doi]
- [281] **Parallel Computation of Discrete Orthogonal Moment on Block Represented Images Using OpenMP** (I.M. Spiliotis, C. Sitaridis, M.P. Bekakos), *In International Journal of Parallel Programming*, volume 49, 2021. [details] [pdf] [doi]
- [280] **Investigating sea-state effects on flash flood hydrograph and inundation forecasting** (George Papaioannou, George Varlas, Anastasios Papadopoulos, Antanasios Loukas, Petros Katsafados, Elias Dimitriou), *In Hydrological Processes*, volume 35, 2021. [details] [pdf] [doi]
- [279] **The first multi-model ensemble of regional climate simulations at kilometer-scale resolution. part I: evaluation of precipitation** (Ban N. et al), *In Climate Dynamics*, 2021. [details] [pdf] [doi]
- [278] **Evolving graph convolutional networks for neural architecture search** (Kyriakides George, Margaris Konstantinos), *In Neural Computing and Applications*, 2021. [details] [pdf] [doi]
- [277] **Large Eddy Simulation of low Reynolds number turbulent hydrogen jets - Modelling considerations and comparison with detailed experiments** (I.C. Tollas, A.A. Kanaev, N. Koutsourakis, V.Y. Glotov, A.G. Venetsanos), *In International Journal of Hydrogen Energy*, volume 46, 2021. [details] [pdf] [doi]
- [276] **Assessment of a regional physical-biogeochemical stochastic ocean model. Part 1: ensemble generation** (Vervatis V.D., De Mey-Frémaux P., Ayoub N., Karagiorgos J., Ghantous M., Kailas M., Testut C.-E., Sofianos S.), *In Ocean Modell.*, volume 160, 2021. [details] [pdf] [doi]
- [275] **Assessment of a regional physical-biogeochemical stochastic ocean model. Part 2: empirical consistency.** (Vervatis V.D., De Mey-Frémaux P., Ayoub N., Karagiorgos J., Ciavatta S., Brewin R., Sofianos S.), *In Ocean Modell.*, volume 160, 2021. [details] [pdf] [doi]
- [274] **Impact of Oxygen on the Properties of Cu3N and Cu3-xN1-xOx** (Matthew Zervos, Andreas Othonos, Theodore Pavloudis, Stefanos Giaremis, Joseph Kioseoglou, Kalliopi Mavridou, Maria Katsikini, Fani Pinakidou, Eleni C Paloura), *In J. Phys. Chem. C*, 2021. [details] [pdf] [doi]
- [273] **Ab Initio Study of the Electron-Phonon Coupling in Ultrathin Al Layers** (S Giaremis, Ph Konninou, Th Karakostas, J Kioseoglou), *In J. Low Temp Phys.*, 2021. [details] [pdf] [doi]
- [272] **Combining generative adversarial networks and agricultural transfer learning for weeds identification** (Borja Espejo-García, Nikos Mylonas, Loukas Athanasakos, Eleanna Vaili and Spyros Fountas), *In Biosystems Engineering*, volume 204, 2021. [details] [pdf] [doi]
- [271] **Bifurcations and instability mechanisms in rotor systems generated by non-linear bearings of complex design and elastic pedestals** (Anastasopoulos Lysandros, Chasalevris Athanasios), *In SIRM 2021 - 14th International Conference in Dynamics of Rotating Machinery*, 2021. [details] [pdf]
- [270] **The Saharan convective boundary layer structure over large scale surface heterogeneity: A large eddy simulation study** (Georgios Papangelis, Maria Tombrou, John Kalogiros), *In Atmospheric Research*, volume 248, 2021. [details] [pdf] [doi]
- [269] **NanoMaterialsCAD: Flexible Software for the Design of Nanostructures** (G Nikoulis, P Grammatikopoulos, S Steinhauer, J Kioseoglou), *In Advanced Theory and Simulations*, 2021. [details] [pdf] [doi]
- [268] **Micellization through complexation of oppositely charged diblock copolymers: Effects of composition, polymer architecture, salt of different valency, and thermoresponsive block** (Christos Gioldas, Leonidas N. Gergidis, Costas Vlahos), *In Journal of Polymer Science*, volume , 2021. [details] [pdf] [doi]

2020

- [267] **The opposing effects of reforestation and afforestation on the diurnal temperature cycle at the surface and in the lowest atmospheric model level in the European summer** (Breil, M., Rechid, D., Davin, E.L., De Noblet-Ducoudré, N., Vetterli, E., Gaudes, P.M., Uffink, B., Job, J.J., Garcia, R.M.M., Gochis, C., Gaudet, J., Gnanadeskian, C., Jägle, H., M.

Εκπαίδευση

8

Ιουν

[ONLINE] Introduction to Molecular Modeling and Molecular Dynamics in HPC @GRNET, 22-23 June 2021

IN ΕΚΠΑΙΔΕΥΣΗ, ΝΕΑ ΕΚΔΗΛΩΣΕΙΣ

2021**17**

Μαρ

PRACE Training Centre Course :GPU programming using CUDA @GRNET

IN ΕΚΠΑΙΔΕΥΣΗ, ΝΕΑ ΕΚΔΗΛΩΣΕΙΣ

2021

GPU programming using CUDA @GRNET - Date : 1-2 Apr. 2021

26

Νοε

[ONLINE] Efficient Use of HPC Systems

IN ΕΚΠΑΙΔΕΥΣΗ, ΝΕΑ ΕΚΔΗΛΩΣΕΙΣ

2020

14-15 December 2020 Description The purpose of this course is to guide existing and potential users on how to efficiently...

22

Οκτ

ONLINE - PRACE Training Centre: Introduction to Parallel Programming

IN ΕΚΠΑΙΔΕΥΣΗ, ΝΕΑ ΕΚΔΗΛΩΣΕΙΣ

2020

11 - 13 November 2020 Purpose of the course The focus is to understand the basics of parallel programming with...

17

Ιουν

Introduction to Biomolecular modeling and Molecular dynamics in HPC

IN ΕΚΠΑΙΔΕΥΣΗ, ΝΕΑ ΕΚΔΗΛΩΣΕΙΣ

2020

(Classical and Quantum) Purpose of the course The purpose of this course is to present to existing and potential users...

9

Ιουν

RESCHEDULED, ONLINE - PRACE Training Centre: Machine Learning in HPC, 11-12 June 2020.

IN ΕΚΠΑΙΔΕΥΣΗ, ΝΕΑ ΕΚΔΗΛΩΣΕΙΣ

2020

Machine Learning in HPC RESCHEDULED, ONLINE 11-12 June 2020 Description After the course the participants should be able to understand...



Section 1 of 6

HPC Training Needs in Greece by EuroCC@Greece



Dear participant,

The EuroCC@Greece is one of 33 national nodes of the EuroCC project, which started during September 2020, built in the framework of the European High Performance Computing Joint Undertaking (EuroHPC JU). The aim of EuroCC is to advance competitiveness in research, improve effectiveness of government services and promote innovation in industry.

In order to implement this objective, we will design and deliver training activities in order to address the different user needs, enabling them to scale up their HPC workloads and enhance their HPC competencies. The results from this survey will help us identify and understand the distinct needs of the Greek users as well as those that want to become HPC users and create training portfolios for the coming years, enhancing this way High Performance Computing in Greece.

Your participation is important. Let's co-create together the future HPC training events in Greece!

If you want to keep up to date with the EuroCC@Greece activities, upcoming training events, workshops, you can:

- visit our web page: <https://eurocc-greece.gr/>
- Sign up for our EuroCC newsletter <https://eurocc-greece.gr/newsletter/>
- follow us on Twitter @EuroCC_Greece and LinkedIn <https://www.linkedin.com/company/eurocc-greece/>



EuroCC@Greece

HPC Needs & Skills Survey

The Greek EuroCC Hub for
High-Performance Computing



Invitation to EuroCC@Greece High Performance Computing Needs & Skills Survey

May 2021

Dear Reader,

As you are already aware, EuroCC@Greece has launched the "HPC needs & skills in Greece" survey.

If you hold a key role in big data in your organization or company, and still wish to partake in the survey, you are able to do so **up until May 28th**.

Your participation is crucial in our effort to map the ecosystem of **HPC / Big Data / AI** existing and potential users and providers in Greece, identify and understand the distinct needs, but also the existing skills. The outcome of the survey will enable us to gradually build up the necessary support accordingly and help the existing and potential HPC user communities benefit from this knowledge in order to utilize it, whilst executing everyday related tasks within their organization.

Don't miss it, fill out the form until May 28th!

Completing the survey will only take 10 minutes.

[Take part in the Survey](#)

General information

Personal Data & Contact Information

Name*

Email*

Telephone no.

Organization Information

Name of Organization*

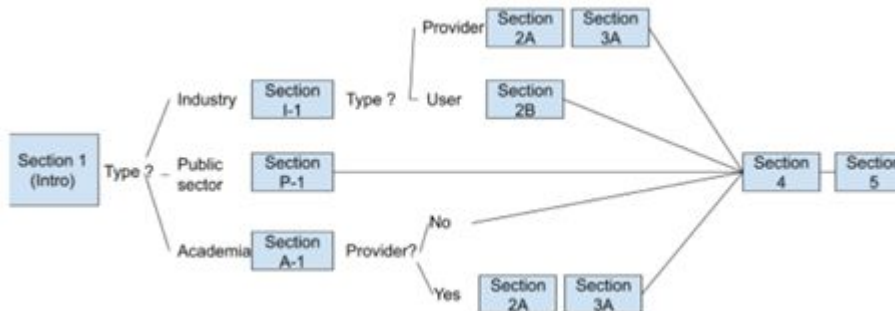
Link*

Location (Country)*

Location (City)*

How many people are employed in your organization? (if applicable) include also administrative staff.*

- 1 (single person)
- 2-10
- 10-50



Industry service portfolio

- *Consultation on access to HPC infrastructure*
- *Consultation on access to funding*
- *Consultation on HPC, AI and HPDA technologies*
- *Facilitation of industrial collaborations/ tech transfer*

Help us understand your needs with requests at
contact@eurocc-greece.gr

EuroCC@Greece thematic events



“FF4Europe 2nd call for proposals for high quality experiments involving innovative SMEs using advanced HPC services” online event

on Jul 6

FF4EuroHPC European initiative and EuroCC@Greece invite you to participate in the online event titled: “FF4Europe 2nd call for proposals for high quality experiments involving innovative SMEs using advanced HPC services”, on July 15th, at 10:30 CET | 11:30 EEST.

[Read more →](#)



HPC for the Greek Health and Life Sciences Sector

on Jun 8

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[Read more →](#)



Shift your business to the next level with the help of HPC

SMEs, submit proposals to the second FF4EuroHPC Open Call!

Why should SMEs apply to the FF4EuroHPC Open Call and take part in experiments?

- ✓ to **develop unique, innovative** products or services
- ✓ to **optimise products** or the production process
- ✓ to speed-up the time-to-market, save real money and **gain new customers**
- ✓ to lift their business to **Industry 4.0** and gain new know-how
- ✓ to **gain new insights** by collaborating with experts from HPC/HPDA/AI domain

Which SMEs can apply to the FF4EuroHPC Open Call?

This call for proposals targets highest quality experiments involving innovative, agile SMEs and putting forward work plans built around innovation targets arising from the use of advanced HPC services. Proposals are sought that address business challenges from European SMEs from varied application domains, with strong preference being given to engineering and manufacturing, or sectors able to demonstrate fast economic growth or particular economic impact for Europe.

Key details

- 🕒 **Submission Deadline:**
29th September 2021, at 17:00 Brussels local time
- 🕒 **Expected duration of experiments:**
Maximum 15 months with expected commencement 1st March 2022
- 💰 **Funding for the Open Call:**
The indicative total funding budget is EUR 5 M.
- 💰 **Maximum funding request per proposal:**
EUR 200,000 (covering all participants)



HPC-Based navigation system for Marine Litter hunting
[Read more](#)



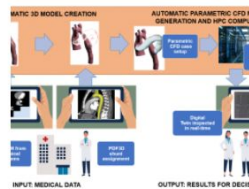
HPC-based Multi-Physics and Multi-scale modelling of the autoclave process for aeronautical components
[Read more](#)



HPC for Cancer Drug Accuracy
[Read more](#)



High-performance Computing for high-value weather forecast
[Read more](#)



Cloud-based HPC platform to support systemic-pulmonary shunting procedures
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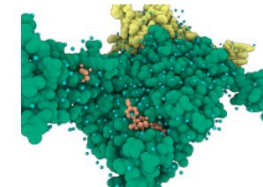
Axyon AI - Leveraging HPC for AI and DL-powered solutions for asset management
[Read more](#)



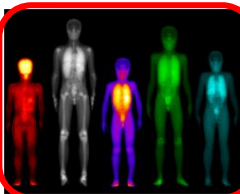
AI-Platform for Automated Training of Object Detection Models based on CAD Data
[Read more](#)



AI /ML Enabled by HPC for Edge Camera Devices for the Next Generation Hen Farms
[Read more](#)



Advanced HPC based drug discovery with converged Deep Physics and AI
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A pediatric simulated dosimetry platform for clinical use
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Register as a member of the EuroCC@Greece HPC hub

Add your own information in the list
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EuroCC@Greece Hub for HPC

This page displays information on High-Performance Computing, Big
Data and Artificial Intelligence providers and experts

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Organization Name ▾

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<input type="text"/>	Organization type ▾	Country ▾
Location (city) ▾	Domain ▾	AI (Applications) ▾
Technologies (AI) ▾	AI (Technical skills) ▾	HPC (hardware) ▾
HPC (software) ▾	HPC (support and services) ▾	Technologies (HPC) ▾



Computational Process Engineering group, School of Chemical Engineering, National Technical University of Athens

Computational analysis of transport phenomena in chemical engineering processes, mainly from the areas of micro-fluidics and chemical vapor deposition.

Organization name: Computational Process Engineering group, School of Chemical Engineering, National Technical University of Athens

Organization type: Academic sector (University, Research institution)

Country: Greece

HPC (hardware): Compute Processing (CPU architectures)

Phone Number: 2107723299

"HPC Needs & skills" survey

Help us identify HPC related needs and skills and create a reliable Competence Map in Greece

[SURVEY](#)

Contact us at

contact@eurocc-greece.gr

Thank you!!

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