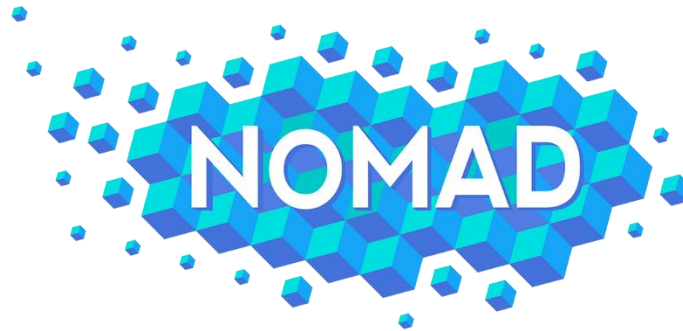




BSC exciting Hackathon



NOVEL MATERIALS DISCOVERY

A European Centre of Excellence

BSC exciting Hackathon

27/05/2023 - 2/06/2023

Barcelona Supercomputing Center
Plaça d'Eusebi Güell, 1-3, 08034 Barcelona

link to map: <https://t.ly/f0kn>

Meeting room: BSC-PL3-1-16/1

Local Organizers:

Julio Gutiérrez Moreno, Rogeli Grima Torres, Isidre Mas Magre (Materials Science, CASE-BSC)

Co-Organizers:

Andris Gulans (University of Latvia), Claudia Daxl (Humboldt University of Berlin)

Instructors:

Germán Llort, David Bernal, Judit Giménez (Performance Tools, CS-BSC)
Xavier Teruel (Best Practices for Performance and Programmability, CS-BSC)



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Pedro Martínez Ferrer, Xavier Martorell (Parallel Programming Models, CS-BSC)

Marc Jordà, Antonio Peña (Accelerators and Communications for High Performance Computing, CS-BSC)

Participants:

Manoar Hossain (Humboldt University of Berlin)

Ben Alex (Humboldt University of Berlin)

Hannah Kleine (Humboldt University of Berlin)

Elisa Stephan (Humboldt University of Berlin)

Benedikt Maurer (Humboldt University of Berlin)

Sebastian Tillack (Humboldt University of Berlin)

Sven Lubeck (Humboldt University of Berlin)

Davis Zavickis (University of Latvia)

Janis Uzulis (University of Latvia)

Kristians Kacars (University of Latvia)

Agenda

Saturday 27-05-2023

15:00 - 20:00 Arrival and networking event (café/restaurant)

Sunday 28-05-2023

12:00 - 18:00 Cultural city visits and networking

Monday 29-05-2023

Instructors: Germán Llort, David Bernal

Support team: Rogeli Grima, Isidre Mas

9:45 - 10:30 Meeting at BSC reception. Welcome & introduction

10:30 - 13:30 Tutorial & hands-on in performance analytics



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13:30 - 14:30 Lunch break

14:30 - 17:30 Hands-on session in performance analytics

Tuesday 30-05-2023

Instructors: Xavier Teruel, Pedro Martínez

Support team: Rogeli Grima, Isidre Mas

10:00 - 13:00 Tutorial & hands-on in code parallelization

13:00 - 14:30 Lunch break

14:30 - 17:30 Hands-on session in code parallelization

Wednesday 31-05-2023

Main instructor: Marc Jordà

Support team: Rogeli Grima, Isidre Mas

10:00 - 13:00 Tutorial & hands-on in GPU programming

13:00 - 13:30 NOMAD WP2 meeting (online)

13:30 - 14:30 Lunch break

13:30 - 18:30 Hands-on session in GPU programming

Thursday 1-06-2023

Instructors: Pedro Martínez, Xavier Teruel

Support team: Rogeli Grima, Isidre Mas

10:00 - 13:30 Hands-on session in code parallelization

13:30 - 14:30 Lunch break

13:30 - 18:30 Hands-on session in code parallelization

Friday 2-06-2023

Instructors: Rogeli Grima, Isidre Mas

10:00 - 13:30 Wrap-up & hands-on session

13:30 - 14:30 Lunch

Important information

- The meeting rooms will be available only during the sessions. Access to and circulation through the building is only allowed in the company of a BSC staff member. We will



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meet every day at the main entrance, go in a group for lunch, and exit the building together.

- The training HPC accounts will be accessible at any time.
- Eating at the meeting rooms is not allowed.
- All morning and afternoon sessions between Monday and Thursday will have a 15-minute coffee break in the middle.
- We will organize a visit to MareNostrum on Tuesday, at the end of the session.
- The workshop dinner will take place on Thursday evening, all attendees and instructors are welcome to join.

Lunch breaks (possible options): Vertex restaurant, Falafel Pedralves, Pizza Altaglio BCN, Heymey, Vegetarium, Frankfurt Pedralbes...



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