

# ISC STEM STUDENT DAY & GALA



WEDNESDAY, JUNE 19, 2019



ISC High Performance is a forum for high performance computing (HPC) community members to network and explore opportunities.

The ISC STEM Day & Gala welcomes science, technology, engineering, and mathematics students into the world of HPC, demonstrate how technical skills in this area can propel your future career.



FIRST COME,  
FIRST SERVED

**FREE ADMISSION for:**  
undergraduate and  
graduate students  
(regional & international)

**Opens on April 9, 2019!**

We will close once we have reached 200 students.  
The tutorial can only accommodate 100 attendees,  
and these will be allocated to the earliest sign-ups.

## WHY ATTEND THE ISC STEM DAY?

- ✓ If you choose a career in science, technology, engineering or mathematics, you will rely on HPC to support your work.
- ✓ Unfortunately, many STEM degree programs are not offering HPC courses in their curriculum.
- ✓ HPC is relevant in earth & climate science, clean energy, healthcare, food security, sustainable agriculture, marine research, biological research, cybersecurity & defense, urban planning, cosmology, astrophysics, machine learning, AI, Internet of Things, and more.
- ✓ Many HPC-related jobs in Europe and the U.S. are not being filled due to a shortage of HPC skills among science and engineering graduates.
- ✓ As Europe moves to become a digital economy beyond 2020, HPC skills shortage is expected to grow worse.

We offer you a **free introduction to HPC and its role in STEM careers**, which can provide a unique advantage over someone in a similar degree program.

While we do that, we would also like to introduce you to organizations that offer training in HPC, as well as those interested in hiring graduates.

The European Commission is spending EUR 1 billion on providing European researchers and companies world-class supercomputers by 2020 so they can develop new technologies for the 21st century.

Did you know that as a data scientist, computational chemist, computational biologist or senior software engineer, you can start out earning between EUR 64K to EUR 120K a year, depending on your qualifications and skills?

## FULL PROGRAM

- ✓ Systematic introduction to HPC technology
- ✓ 2 ½-hour tutorial on HPC, its application & programming models
- ✓ Tour of the ISC 2019 exhibition
- ✓ Job fair
- ✓ Networking & dinner reception

In the tutorial, you will be introduced to major applications in the various fields of science and business, as well as an overview of systems and hardware needed to run those different applications.

You will also learn about the major programming languages used in this field.

## DURING THE DAY

Venue: Forum, Messe Frankfurt.

9:30 am – 11:00 am	<b>HPC Tutorial: Applications, Systems, and Programming Models (Part 1)</b> (Presenter: Dr.-Ing. Bernd Mohr, Senior Scientist, Jülich Supercomputing Centre)
11:00 am – 11:30 am	Coffee break
11:30 am – 12:30 pm	<b>HPC Tutorial: Applications, Systems, and Programming Models (Part 2)</b> (Presenter: Dr.-Ing. Bernd Mohr, Senior Scientist, Jülich Supercomputing Centre)
12:30 pm – 1:45 pm	Lunch
2:35 pm – 5:00 pm	<b>Guided Tour of ISC 2019 Exhibition</b>
5:15 pm – 5:30 pm	<b>Watch the Student Cluster Competition Awarding</b>
5:30 pm – 6:15 pm	<b>Keynote on HPC Achievements &amp; Impacts in 2019</b> (Presenter: Dr. Thomas Sterling, Professor of Intelligent Systems Engineering, Indiana University)



Dr.-Ing. Bernd Mohr



Dr. Thomas Sterling

## DURING THE EVENING

Venue: Forum, Messe Frankfurt.

6:45 pm – 7:00 pm	<b>Welcome &amp; Drinks</b>
7:00 pm – 7:20 pm	<b>Big Hair, Big Data &amp; Beyond - A Career in Enterprise Computing</b> (Presenter: Arno Kolster, Principal & Co-Founder, Providentia Worldwide)
7:20 pm – 9:30 pm	<b>Dinner, Networking &amp; Career Fair</b>



Mr. Arno Kolster

Visit [isc-hpc.com/stem-student-day-gala.html](http://isc-hpc.com/stem-student-day-gala.html) for additional information.